



Alpha Clima Sotiris Karkas

General catalogue 2015





Low temperature radiators at 45°C

Available spring 2015

Case study

Typical application

Ground floor: under floor heating
First floor: low temperature radiators

Required water temperature

- › Under floor heating: 35°C
- › Low temperature radiators: 45°C

Bi-zone principle

Daikin Altherma low temperature is set at the maximum required water temperature, i.e. 45°C. A double water circuit is connected to the indoor unit

- › 45°C water circuit for radiators: immediate supply from the indoor unit
- › 35°C water circuit for under floor heating: mixing valve between indoor and water circuit, that mixes 45°C with the return water in the system to lower the temperature.

If there is only demand from the under floor heating circuit, the leaving water temperature of the Daikin Altherma will be lowered to 35°C in order to increase the efficiency of the heat pump.

Our promise...

... is to ensure that customers can depend on Daikin for the ultimate in comfort, so that they are free to focus on their own working and home lives.

We promise to dedicate ourselves to technological excellence,

a design focus and the highest quality standards so that our customers can trust and rely on the comfort we deliver.

Our promise to the planet is absolute. Our products are at the forefront of low energy-usage and we will innovate to further reduce the environmental impact of HVACR (Heating, Ventilation, Air conditioning, Refrigeration) solutions. We lead where others follow.

We will continue our global leadership in HVACR solutions as our specialist expertise in all market sectors combined with 90 years' experience enable us to deliver added value in long-lasting relationships based on trust, respect and credibility.

We promise to continue our forward-thinking ethos, treating challenges as opportunities to produce ever-better solutions. We will drive innovation and go the extra distance for our customers and our company. We will be smart and ready to do things differently.

We will deliver on these core values of our brand and enjoy sustainable success with continued growth.



Daikin Altherma low temperature split

Floor standing air to water heat pump for heating and hot water with thermal solar support

- › Integrated solar unit, maximising renewable energy and offering top comfort in heating and hot water
- › Solar support of domestic hot water with unpressurised (drain-back) solar system
- › Lightweight plastic tank with exceptional hygienic benefits
- › App control possible for managing heating and hot water operation
- › Outdoor unit extracts heat from the outdoor air, even at -25°C



Efficiency data			EHS + ERLQ	04P30A + 004CV3	08P50A + 006CV3	08P30A + 006CV3	08P30A + 008CV3	08P50A + 008CV3	16P50A + 011CV3	16P50A + 011CW1	16P50A + 014CV3	16P50A + 014CW1	16P50A + 016CV3	16P50A + 016CW1
Heating capacity	Min.		kW	1.80 / 1.81	1.80 / 1.81	1.80 / 1.81	1.80 / 1.81	1.80 / 1.81			-			
	Nom.		kW	4.53 / 3.98 / 4.26 / 3.47	6.06 / 5.78 / 5.14 / 4.60	6.06 / 5.78 / 5.14 / 4.60	7.78 / 7.27 / 5.53 / 5.51	7.78 / 7.27 / 5.53 / 5.51	11.80 / 10.40 / 5.95 / 7.74	11.80 / 10.40 / 5.95 / 7.74	14.81 / 13.73 / 8.28 / 9.57	14.81 / 13.73 / 8.28 / 9.57	15.34 / 14.86 / 8.04 / 10.05	15.34 / 14.86 / 8.04 / 10.05
	Max.		kW	5.12 / 4.90	8.35 / 7.95	8.35 / 7.95	10.02 / 9.53	10.02 / 9.53	11.38 / 11.00	11.38 / 11.00	14.55 / 13.59	14.55 / 13.59	16.10 / 15.22	16.10 / 15.22
Power input	Heating	Nom.	kW	0.87 / 1.04 / 1.49 / 0.85	1.30 / 1.58 / 1.88 / 1.26	1.30 / 1.58 / 1.88 / 1.26	1.69 / 2.04 / 1.98 / 1.56	1.69 / 2.04 / 1.98 / 1.56	2.57 / 3.13 / 2.43 / 2.35	2.57 / 3.13 / 2.43 / 2.35	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93
			Max.	kW	1.12 / 1.44	1.99 / 2.32	1.99 / 2.32	2.54 / 2.96	2.54 / 2.96	2.64 / 3.25	2.64 / 3.25	3.43 / 4.22	3.43 / 4.22	3.83 / 4.71
	COP			5.23 / 3.84 / 2.85 / 4.07	4.65 / 3.66 / 2.73 / 3.64	4.65 / 3.66 / 2.73 / 3.64	4.60 / 3.57 / 2.78 / 3.54	4.60 / 3.57 / 2.78 / 3.54	4.38 / 3.32 / 2.45 / 3.29	4.38 / 3.32 / 2.45 / 3.29	4.27 / 3.34 / 2.58 / 3.22	4.27 / 3.34 / 2.58 / 3.22	4.10 / 3.32 / 2.40 / 3.25	4.10 / 3.32 / 2.44 / 3.15

Indoor Unit		EHS	04P30A	08P50A	08P30A	08P50A	16P50A
Casing	Colour	Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material	Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth	mm	1,945x615x595	1,945x790x790	1,945x615x595	1,945x790x790
Weight	Unit		kg	87	114	87	114
Tank	Water volume		l	300	500	300	500
	Maximum water temperature		°C	85			
Sound power level		Nom.	dBA	40			
Sound pressure level		Nom.	dBA	28			

Outdoor Unit			ERLQ	004CV3	006CV3	008CV3	011CV3	011CW1	014CV3	014CW1	016CV3	016CW1
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307			1,345x900x320					
Weight	Unit		kg	54	56		113	114	113	114	113	114
Compressor	Quantity			1								
	Type			Hermetically sealed swing compressor			Hermetically sealed scroll compressor					
Operation range	Heating	Min.~Max.	°CWB	-25~25			-25~35					
	Domestic hot water	Min.~Max.	°CDB	-25~35			-20~35					
Refrigerant	Type / GWP			R-410A / 2,087.5								
	Charge		kg	1.45	1.6		3.4					
	Charge		TCO _{Eq}	3.0	3.3		7.1					
Sound power level	Heating	Nom.	dBA	61		62	64			66		
Sound pressure level	Heating	Nom.	dBA	48		49	51			52		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230			W1/3N~/50/400		V3/1~/50/230	W1/3N~/50/400	V3/1~/50/230	W1/3N~/50/400
Current	Recommended fuses		A	20			40	20	40	20	40	20

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB

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Daikin Altherma low temperature split

Floor standing air to water heat pump for bivalent heating and hot water with thermal solar support

› Bivalent system: combinable with a secondary heat source



Efficiency data			EHSB + ERLQ	04P30A + 004CV3	08P30A + 006CV3	08P50A + 006CV3	08P30A + 008CV3	08P50A + 008CV3	16P50A + 011CV3	16P50A + 011CW1	16P50A + 014CV3	16P50A + 014CW1	16P50A + 016CV3	16P50A + 016CW1
Heating capacity	Min.		kW	1.80 / 1.81	1.80 / 1.81	1.80 / 1.81	1.80 / 1.81	1.80 / 1.81	1.80 / 1.81	-	-	-	-	-
	Nom.		kW	4.53 / 3.98 / 4.26 / 3.47	6.06 / 5.78 / 5.14 / 4.60	6.06 / 5.78 / 5.14 / 4.60	7.78 / 7.27 / 5.53 / 5.51	7.78 / 7.27 / 5.53 / 5.51	11.80 / 10.40 / 5.95 / 7.74	11.80 / 10.40 / 5.95 / 7.74	14.81 / 13.73 / 8.28 / 9.57	14.81 / 13.73 / 8.28 / 9.57	15.34 / 14.86 / 8.04 / 10.05	15.34 / 14.86 / 8.04 / 10.05
	Max.		kW	5.12 / 4.90	8.35 / 7.95	8.35 / 7.95	10.02 / 9.53	10.02 / 9.53	11.38 / 11.00	11.38 / 11.00	14.55 / 13.59	14.55 / 13.59	16.10 / 15.22	16.10 / 15.22
Power input	Heating	Nom.	kW	0.87 / 1.04 / 1.49 / 0.85	1.30 / 1.58 / 1.88 / 1.26	1.30 / 1.58 / 1.88 / 1.26	1.69 / 2.04 / 1.98 / 1.56	1.69 / 2.04 / 1.98 / 1.56	2.57 / 3.13 / 2.43 / 2.35	2.57 / 3.13 / 2.43 / 2.35	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93
		Max.	kW	1.12 / 1.44	1.99 / 2.32	1.99 / 2.32	2.54 / 2.96	2.54 / 2.96	2.64 / 3.25	2.64 / 3.25	3.43 / 4.22	3.43 / 4.22	3.83 / 4.71	3.83 / 4.71
COP				5.23 / 3.84 / 2.85 / 4.07	4.65 / 3.66 / 2.73 / 3.64	4.65 / 3.66 / 2.73 / 3.64	4.60 / 3.57 / 2.78 / 3.54	4.60 / 3.57 / 2.78 / 3.54	4.38 / 3.32 / 2.45 / 3.29	4.38 / 3.32 / 2.45 / 3.29	4.27 / 3.34 / 2.58 / 3.22	4.27 / 3.34 / 2.58 / 3.22	4.10 / 3.22 / 2.44 / 3.15	4.10 / 3.22 / 2.44 / 3.15
EER				4.21 / 2.85	3.65 / 2.51	3.65 / 2.51	3.65 / 2.51	3.65 / 2.51	3.32 / 2.72	3.32 / 2.72	2.96 / 2.47	2.96 / 2.47	2.72 / 2.29	2.72 / 2.29

Indoor Unit			EHSB	04P30A	08P30A	08P50A	08P30A	08P50A	16P50A					
Casing	Colour								Traffic white (RAL9016) / Dark grey (RAL7011)					
	Material								Impact resistant polypropylene					
Dimensions	Unit	HeightxWidthxDepth	mm	1,945x615x595		1,945x790x790		1,945x615x595		1,945x790x790				
Weight	Unit		kg	92		119		92		121				
Tank	Water volume		l	300		500		300		500				
	Maximum water temperature		°C							85				
Sound power level	Nom.		dBA							40				
Sound pressure level	Nom.		dBA							28				

Outdoor Unit			ERLQ	004CV3	006CV3	008CV3	011CV3	011CW1	014CV3	014CW1	016CV3	016CW1
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307			1,345x900x320					
Weight	Unit		kg	54	56		113	114	113	114	113	114
Compressor	Quantity			1								
	Type			Hermetically sealed swing compressor			Hermetically sealed scroll compressor					
Operation range	Heating	Min.~Max.	°CWB	-25~25			-25~35					
	Domestic hot water	Min.~Max.	°CDB	-25~35			-20~35					
Refrigerant	Type / GWP			R-410A / 2,087.5								
	Charge		kg	1.45	1.6		3.4					
	Charge		TCO _{Eq}	3.0	3.3		7.1					
Sound power level	Heating	Nom.	dBA	61		62	64			66		
Sound pressure level	Heating	Nom.	dBA	48		49	51			52		
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230				W1/3N~/50/400	V3/1~/50/230	W1/3N~/50/400	V3/1~/50/230	W1/3N~/50/400
Current	Recommended fuses		A	20		40	20	40	20	40	20	20

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB

New products 2015



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Daikin Altherma low temperature - integrated solar unit

- › **Best seasonal efficiencies**, providing the highest savings on running costs
- › **Perfect fit for new builds**, as well as low-energy houses
- › **Solar support** of domestic hot water with unpressurised solar system
- › Lightweight plastic tank
- › **Bivalent option**: combinable with a secondary heat source
- › **App** control possible



p.70

Gas condensing boiler

- › **Low running costs** for both heating and hot water
- › **Easy installation** in minimum space
- › **Ideal for replacement** of current gas boiler



p.72

Optimised for heating split range

- › Wide range of connectable indoor units (wall mounted, floor standing) with guaranteed heating capacity **down to -25°C outdoor temperature**
- › Unique **free hanging coil** technology: the defrost cycle is improved, resulting in lower running costs and no ice buildup

R-32



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R32 range expanded

New ranges launched with R32 to offer better **efficiencies** and **low environmental impact**

- › Daikin Emura **FTXJ-LW/S**
- › FTXM-K

Daikin Altherma

low temperature split

Floor standing air to water heat pump for heating, cooling and hot water with thermal solar support

- › Integrated solar unit, maximising renewable energy and offering top comfort in heating, hot water and cooling
- › Solar support of domestic hot water with unpressurised (drain-back) solar system
- › Lightweight plastic tank with exceptional hygienic benefits
- › App control possible for managing heating, hot water and cooling operation
- › Outdoor unit extracts heat from the outdoor air, even at -25°C



Efficiency data			EHSX + ERLQ	04P30A + 004CV3	08P30A + 006CV3	08P50A + 006CV3	08P30A + 008CV3	08P50A + 008CV3	16P50A + 011CV3	16P50A + 011CW1	16P50A + 014CV3	16P50A + 014CW1	16P50A + 016CV3	16P50A + 016CW1
Heating capacity	Min.		kW	1.80 (1) / 1.81 (2)	1.80 (1) / 1.81 (2)	1.80 (1) / 1.81 (2)	1.80 (1) / 1.81 (2)	1.80 (1) / 1.81 (2)	-	-	-	-	-	-
	Nom.		kW	4.53 (1) / 3.98 (2) / 4.26 (3) / 3.47 (4)	6.06 (1) / 5.78 (2) / 5.14 (3) / 4.60 (4)	6.06 (1) / 5.78 (2) / 5.14 (3) / 4.60 (4)	7.78 (1) / 7.27 (2) / 5.53 (3) / 5.51 (4)	7.78 (1) / 7.27 (2) / 5.53 (3) / 5.51 (4)	11.80 (1) / 10.40 (2) / 5.95 (3) / 7.24 (4)	11.80 (1) / 10.40 (2) / 5.95 (3) / 7.24 (4)	14.81 (1) / 13.73 (2) / 8.28 (3) / 9.57 (4)	14.81 (1) / 13.73 (2) / 8.28 (3) / 9.57 (4)	15.34 (1) / 14.86 (2) / 8.04 (3) / 9.05 (4)	15.34 (1) / 14.86 (2) / 8.04 (3) / 9.05 (4)
	Max.		kW	5.12 (1) / 4.90 (2)	8.35 (1) / 7.95 (2)	8.35 (1) / 7.95 (2)	10.02 (1) / 9.53 (2)	10.02 (1) / 9.53 (2)	11.38 (1) / 11.00 (2)	11.38 (1) / 11.00 (2)	14.55 (1) / 13.59 (2)	14.55 (1) / 13.59 (2)	16.10 (1) / 15.22 (2)	16.10 (1) / 15.22 (2)
Cooling capacity	Min.		kW	2.0 (1) / 2.1 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	-	-
	Nom.		kW	4.4 (1) / 4.0 (2)	5.2 (1) / 4.6 (2)	5.2 (1) / 4.6 (2)	5.2 (1) / 4.6 (2)	5.2 (1) / 4.6 (2)	15.1 (1) / 11.7 (2)	15.1 (1) / 11.7 (2)	16.1 (1) / 12.6 (2)	16.1 (1) / 12.6 (2)	16.8 (1) / 13.1 (2)	16.8 (1) / 13.1 (2)
	Max.		kW	5.9 (1) / 4.5 (2)	7.3 (1) / 5.5 (2)	7.3 (1) / 5.5 (2)	8.4 (1) / 6.4 (2)	8.4 (1) / 6.4 (2)	15.1 (1) / 11.7 (2)	15.1 (1) / 11.7 (2)	16.1 (1) / 12.6 (2)	16.1 (1) / 12.6 (2)	16.8 (1) / 13.1 (2)	16.8 (1) / 13.1 (2)
Power input	Heating	Nom.	kW	0.87 / 1.04 / 1.49 / 0.85	1.30 / 1.58 / 1.88 / 1.26	1.30 / 1.58 / 1.88 / 1.26	1.69 / 2.04 / 1.98 / 1.56	1.69 / 2.04 / 1.98 / 1.56	2.57 / 3.13 / 2.43 / 2.35	2.57 / 3.13 / 2.43 / 2.35	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93	3.42 / 4.07 / 3.17 / 2.93
		Max.	kW	1.12 (1) / 1.44 (2)	1.99 (1) / 2.32 (2)	1.99 (1) / 2.32 (2)	2.54 (1) / 2.96 (2)	2.54 (1) / 2.96 (2)	2.64 (1) / 3.25 (2)	2.64 (1) / 3.25 (2)	3.43 (1) / 4.22 (2)	3.43 (1) / 4.22 (2)	3.83 (1) / 4.71 (2)	3.83 (1) / 4.71 (2)
	Cooling	Nom.	kW	1.05 (1) / 1.41 (2)	1.43 (1) / 1.85 (2)	1.43 (1) / 1.85 (2)	1.43 (1) / 1.85 (2)	1.43 (1) / 1.85 (2)	4.55 (1) / 4.30 (2)	4.55 (1) / 4.30 (2)	5.44 (1) / 5.10 (2)	5.44 (1) / 5.10 (2)	6.18 (1) / 5.72 (2)	6.18 (1) / 5.72 (2)
		Max.	kW	1.86 (1) / 2.04 (2)	2.27 (1) / 2.51 (2)	2.27 (1) / 2.51 (2)	2.89 (1) / 3.20 (2)	2.89 (1) / 3.20 (2)	4.53 (1) / 4.31 (2)	4.53 (1) / 4.31 (2)	5.42 (1) / 5.09 (2)	5.42 (1) / 5.09 (2)	6.15 (1) / 5.74 (2)	6.15 (1) / 5.74 (2)
COP				5.23 (1) / 3.84 (2) / 2.85 (3) / 4.07 (4)	4.65 (1) / 3.66 (2) / 2.73 (3) / 3.64 (4)	4.65 (1) / 3.66 (2) / 2.73 (3) / 3.64 (4)	4.60 (1) / 3.57 (2) / 2.78 (3) / 3.54 (4)	4.60 (1) / 3.57 (2) / 2.78 (3) / 3.54 (4)	4.38 (1) / 3.32 (2) / 2.45 (3) / 3.29 (4)	4.38 (1) / 3.32 (2) / 2.45 (3) / 3.29 (4)	4.27 (1) / 3.34 (2) / 2.58 (3) / 3.22 (4)	4.27 (1) / 3.34 (2) / 2.58 (3) / 3.22 (4)	4.10 (1) / 3.22 (2) / 2.44 (3) / 3.15 (4)	4.10 (1) / 3.22 (2) / 2.44 (3) / 3.15 (4)
EER				4.21 (1) / 2.85 (2)	3.65 (1) / 2.51 (2)	3.65 (1) / 2.51 (2)	3.65 (1) / 2.51 (2)	3.65 (1) / 2.51 (2)	3.32 (1) / 2.72 (2)	3.32 (1) / 2.72 (2)	2.96 (1) / 2.47 (2)	2.96 (1) / 2.47 (2)	2.72 (1) / 2.29 (2)	2.72 (1) / 2.29 (2)

Indoor Unit			EHSX	04P30A	08P30A	08P50A	08P30A	08P50A	16P50A	
Casing	Colour		Traffic white (RAL9016) / Dark grey (RAL7011)							
	Material		Impact resistant polypropylene							
Dimensions	Unit	HeightxWidthxDepth	mm	1,945x615x595	1,945x790x790	1,945x615x595			1,945x790x790	
Weight	Unit		kg	87	114	87	114		116	
Tank	Water volume		l	300	500	300			500	
	Maximum water temperature		°C	85						
Sound power level	Nom.		dBA	40						
Sound pressure level	Nom.		dBA	28						

Outdoor Unit			ERLQ	004CV3	006CV3	008CV3	011CV3	011CW1	014CV3	014CW1	016CV3	016CW1
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307			1,345x900x320					
Weight	Unit		kg	54	56		113	114	113	114	113	114
Compressor	Quantity			1								
	Type			Hermetically sealed swing compressor			Hermetically sealed scroll compressor					
Operation range	Heating	Min.~Max.	°CWB	-25~25			-25~35					
	Cooling	Min.~Max.	°CDB	10~43			10.0~46.0	10~46	10.0~46.0	10~46	10.0~46.0	10~46
	Domestic hot water	Min.~Max.	°CDB	-25~35			-20~35					
Refrigerant	Type / GWP			R-410A / 2,087.5								
	Charge		kg	1.45	1.6		3.4					
	Charge		TCO.Eq	3.0	3.3		7.1					
Sound power level	Heating	Nom.	dBA	61		62	64			66		
	Cooling	Nom.	dBA	63			64	66		69		
Sound pressure level	Heating	Nom.	dBA	48		49	51			52		
	Cooling	Nom.	dBA	48	49		50	50		52		54
Power supply	Name/Phase/Frequency/Voltage		Hz/V	V3/1~/50/230			W1/3N~/50/400		V3/1~/50/230	W1/3N~/50/400	V3/1~/50/230	W1/3N~/50/400
Current	Recommended fuses		A	20			40	20	40	20	40	20

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB

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New wall mounted indoor units

A wide range of **new wall mounted indoor units** launched to fit every customer's requirements and budget with **new designs** and **new features**

- › FTX-K
- › FTXK-AW/S
- › FTXB-C
- › ATX-K
- › ATXB-C
- › ATXN-NB

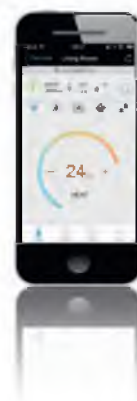


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Online controller

Mobile app control now available for almost all split indoor units

- › **Monitor** the status of your heat pump unit
- › **Control** the operation mode, set temperature, air flow rate and direction
- › **Schedule** the set temperature and operation mode with up to 4 actions per day for 7 days



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Integrating VRV IV standard and technologies on all ranges

- › Heat recovery, heat pump, water-cooled and replacement series now all available in VRV IV!

NEW VRV IV heat recovery:

- › Fully integrated solution with **heat recovery** for maximum efficiency with **COPs of up to 8 !**
- › Covers all thermal needs of a building via a **single point of contact**: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- › **"Free"** heating and hot water through heat recovery
- › The perfect personal **comfort** for guests/tenants via simultaneous cooling and heating
- › Incorporates **VRV IV standards & technologies** such as Variable Refrigerant temperature and continuous heating
- › Most extended and compact range of BS boxes

VRV IV



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FBQ-D / FXSQ-A - Concealed ceiling unit with medium ESP

- › Optimum **comfort** guaranteed no matter the length of ductwork or type of grilles
- › **Lowest** built-in **height** in the market
- › **Lower sound** levels
- › External static pressure up to 150Pa
- › **Automatic air flow adjustment** function
- › **Reduced energy consumption** thanks to DC fan motor
- › Air suction direction can be altered for flexible installation



Daikin Altherma

low temperature split

Floor standing air to water heat pump for bivalent heating, cooling and hot water with thermal solar support

> Bivalent system: combinable with a secondary heat source



			EHSXB + ERLQ	04P30A + 004CV3	08P30A + 006CV3	08P50A + 006CV3	08P30A + 008CV3	08P50A + 008CV3	16P50A + 011CV3	16P50A + 011CW1	16P50A + 014CV3	16P50A + 014CW1	16P50A + 016CV3	16P50A + 016CW1
Heating capacity	Min.		kW	1.80 (1) / 1.81 (2)	1.80 (1) / 1.81 (2)	1.80 (1) / 1.81 (2)	1.80 (1) / 1.81 (2)	1.80 (1) / 1.81 (2)	11.80 (1) / 10.40	11.80 (1) / 10.40	14.81 (1) / 13.73	14.81 (1) / 13.73	15.34 (1) / 14.86	15.34 (1) / 14.86
	Nom.		kW	4.53 (1) / 3.98 (2) / 4.26 (3) / 3.47 (4)	6.06 (1) / 5.78 (2) / 5.14 (3) / 4.60 (4)	6.06 (1) / 5.78 (2) / 5.14 (3) / 4.60 (4)	7.78 (1) / 7.27 (2) / 5.53 (3) / 5.51 (4)	7.78 (1) / 7.27 (2) / 5.53 (3) / 5.51 (4)	21.80 (1) / 19.40 (2) / 17.40 (3) / 17.40 (4)	21.80 (1) / 19.40 (2) / 17.40 (3) / 17.40 (4)	26.81 (1) / 24.81 (2) / 22.81 (3) / 22.81 (4)	26.81 (1) / 24.81 (2) / 22.81 (3) / 22.81 (4)	28.34 (1) / 26.86 (2) / 24.86 (3) / 24.86 (4)	28.34 (1) / 26.86 (2) / 24.86 (3) / 24.86 (4)
Cooling capacity	Max.		kW	5.12 (1) / 4.90 (2)	8.35 (1) / 7.95 (2)	8.35 (1) / 7.95 (2)	10.02 (1) / 9.53 (2)	10.02 (1) / 9.53 (2)	11.38 (1) / 11.00 (2)	11.38 (1) / 11.00 (2)	14.55 (1) / 13.59 (2)	14.55 (1) / 13.59 (2)	16.10 (1) / 15.22 (2)	16.10 (1) / 15.22 (2)
	Min.		kW	2.0 (1) / 2.1 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	2.5 (1) / 2.6 (2)	-	
	Nom.		kW	4.4 (1) / 4.0 (2)	5.2 (1) / 4.6 (2)	5.2 (1) / 4.6 (2)	5.2 (1) / 4.6 (2)	5.2 (1) / 4.6 (2)	15.1 (1) / 11.7 (2)	15.1 (1) / 11.7 (2)	16.1 (1) / 12.6 (2)	16.1 (1) / 12.6 (2)	16.8 (1) / 13.1 (2)	16.8 (1) / 13.1 (2)
	Max.		kW	5.9 (1) / 4.5 (2)	7.3 (1) / 5.5 (2)	7.3 (1) / 5.5 (2)	8.4 (1) / 6.4 (2)	8.4 (1) / 6.4 (2)	15.1 (1) / 11.7 (2)	15.1 (1) / 11.7 (2)	16.1 (1) / 12.6 (2)	16.1 (1) / 12.6 (2)	16.8 (1) / 13.1 (2)	16.8 (1) / 13.1 (2)
Power input	Heating	Nom.	kW	0.87 (1) / 1.04 (2) / 1.49 (3) / 0.85 (4)	1.30 (1) / 1.58 (2) / 1.88 (3) / 1.26 (4)	1.30 (1) / 1.58 (2) / 1.88 (3) / 1.26 (4)	1.69 (1) / 2.04 (2) / 1.98 (3) / 1.56 (4)	1.69 (1) / 2.04 (2) / 1.98 (3) / 1.56 (4)	2.57 (1) / 3.13 (2) / 2.43 (3) / 2.35 (4)	2.57 (1) / 3.13 (2) / 2.43 (3) / 2.35 (4)	3.42 (1) / 4.07 (2) / 3.17 (3) / 2.93 (4)	3.42 (1) / 4.07 (2) / 3.17 (3) / 2.93 (4)	3.42 (1) / 4.07 (2) / 3.17 (3) / 2.93 (4)	3.42 (1) / 4.07 (2) / 3.17 (3) / 2.93 (4)
			Max.	kW	1.12 (1) / 1.44 (2)	1.99 (1) / 2.32 (2)	1.99 (1) / 2.32 (2)	2.54 (1) / 2.96 (2)	2.54 (1) / 2.96 (2)	2.64 (1) / 3.25 (2)	2.64 (1) / 3.25 (2)	3.43 (1) / 4.22 (2)	3.43 (1) / 4.22 (2)	3.83 (1) / 4.71 (2)
	Cooling	Nom.	kW	1.05 (1) / 1.41 (2)	1.43 (1) / 1.85 (2)	1.43 (1) / 1.85 (2)	1.43 (1) / 1.85 (2)	1.43 (1) / 1.85 (2)	4.55 (1) / 4.30 (2)	4.55 (1) / 4.30 (2)	5.44 (1) / 5.10 (2)	5.44 (1) / 5.10 (2)	6.18 (1) / 5.72 (2)	6.18 (1) / 5.72 (2)
		Max.	kW	1.86 (1) / 2.04 (2)	2.27 (1) / 2.51 (2)	2.27 (1) / 2.51 (2)	2.89 (1) / 3.20 (2)	2.89 (1) / 3.20 (2)	4.53 (1) / 4.31 (2)	4.53 (1) / 4.31 (2)	5.42 (1) / 5.09 (2)	5.42 (1) / 5.09 (2)	6.15 (1) / 5.74 (2)	6.15 (1) / 5.74 (2)
COP				5.23 (1) / 3.84 (2) / 2.85 (3) / 4.07 (4)	4.65 (1) / 3.66 (2) / 2.73 (3) / 3.64 (4)	4.65 (1) / 3.66 (2) / 2.73 (3) / 3.64 (4)	4.60 (1) / 3.57 (2) / 2.78 (3) / 3.54 (4)	4.60 (1) / 3.57 (2) / 2.78 (3) / 3.54 (4)	4.38 (1) / 3.32 (2) / 2.45 (3) / 3.29 (4)	4.38 (1) / 3.32 (2) / 2.45 (3) / 3.29 (4)	4.27 (1) / 3.34 (2) / 2.58 (3) / 3.22 (4)	4.27 (1) / 3.34 (2) / 2.58 (3) / 3.22 (4)	4.10 (1) / 3.22 (2) / 2.44 (3) / 3.15 (4)	4.10 (1) / 3.22 (2) / 2.44 (3) / 3.15 (4)
EER				4.21 (1) / 2.85 (2)	3.65 (1) / 2.51 (2)	3.65 (1) / 2.51 (2)	3.65 (1) / 2.51 (2)	3.65 (1) / 2.51 (2)	3.32 (1) / 2.72 (2)	3.32 (1) / 2.72 (2)	2.96 (1) / 2.47 (2)	2.96 (1) / 2.47 (2)	2.72 (1) / 2.29 (2)	2.72 (1) / 2.29 (2)

Indoor Unit			EHSXB	04P30A	08P30A	08P50A	08P30A	08P50A	16P50A	
Casing	Colour			Traffic white (RAL9016) / Dark grey (RAL7011)						
	Material			Impact resistant polypropylene						
Dimensions	Unit	HeightxWidthxDepth	mm	1,945x615x595		1,945x790x790	1,945x615x595		1,945x790x790	
Weight	Unit		kg	92		119	92		119	121
Tank	Water volume		l	300		500	300		500	
	Maximum water temperature		°C	85						
Operation range	Domestic hot water	Water side Min.~Max.	°C	25~55						
Sound power level	Nom.		dBA	40						
Sound pressure level	Nom.		dBA	28						

Outdoor Unit				ERLQ	004CV3	006CV3	008CV3	011CV3	011CW1	014CV3	014CW1	016CV3	016CW1		
Dimensions	Unit	HeightxWidthxDepth	mm	735x832x307				1,345x900x320							
Weight	Unit		kg	54	56			113	114	113	114	113	114		
Compressor	Quantity			1											
	Type			Hermetically sealed swing compressor				Hermetically sealed scroll compressor							
Operation range	Heating	Min.~Max.	°CWB	-25~25				-25~35							
	Cooling	Min.~Max.	°CDB	10~43				10.0~46.0	10~46	10.0~46.0	10~46	10.0~46.0	10~46		
	Domestic hot water	Min.~Max.	°CDB	-25~35				-20~35							
Refrigerant	Type / GWP			R-410A / 2,087.5											
	Charge		kg	1.45	1.6			3.4							
	Charge		TCO.Eq	3.0	3.3			7.1							
Sound power level	Heating	Nom.	dBA	61		62		64			66				
	Cooling	Nom.	dBA	63				64		66		69			
Sound pressure level	Heating	Nom.	dBA	48		49		51			52				
	Cooling	Nom.	dBA	48	49		50		50		52		54		
Power supply	Name/Phase/Frequency/Voltage			Hz/V				V3/1~/50/230			W1/3N~/50/400	V3/1~/50/230	W1/3N~/50/400	V3/1~/50/230	W1/3N~/50/400
Current	Recommended fuses			A				20		40	20	40	20	40	20

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) EW 30°C; LW 35°C; ambient conditions: -7°CDB/-8°CWB (4) EW 30°C; LW 35°C; ambient conditions: 2°CDB/1°CWB



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FNQ-A/ FXNQ-A- Concealed floor standing unit

- › Designed to be **concealed** in floors or walls
- › Ideal for installation in offices, hotel and residential applications
- › Can even be installed underneath a window
- › Requires very **little installation space** as the depth of the unit is only 200mm
- › **High ESP** allows flexible installation
- › The connecting port faces downward, eliminating the need to attach auxiliary piping



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Extension of the range of air handling unit connection

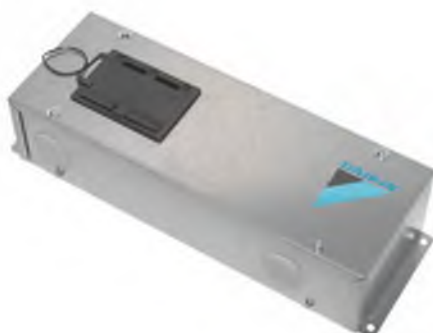
- › Complete **plug & play** solution including AHU, ERQ or VRV condensing unit and all unit control (EKEQ, EKEXV, DDC controller) factory mounted and configured
- › Extension of the range of expansion valves with 400 (55,0 kW) and 500 (69,3 kW) models to allow bigger applications
- › Addition of w-control: Control of air temperature (discharge temperature, suction temperature, room temperature) via any DDC controller, without reprogramming



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BRC2/3E52A - Simplified wired remote control for hotel applications

- › Symbol driven interface for **intuitive control**
- › Functions restricted to basic **customer needs**
- › **Energy saving** thanks key card, window contact integration and set point limitation
- › Flat backpanel for **easy installation**
- › 2 versions available:
 - Heat pump type: temperature, fan speed, ON/OFF
 - Heat recovery type: temperature, mode, fan speed, ON/OFF



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EKMBDXA – DIII-net modbus gateway

- › **Integrated control** system for seamless connection between split, Sky Air, VRV, chillers and AHU and BMS systems
- › Communication via **Modbus RS485** protocol
- › Detailed **monitoring** and **control** of the VRV total solution
- › Easy and **fast installation** via DIII-net protocol

Daikin Altherma low temperature split



Floor standing air to water heat pump for heating and hot water, ideal for low energy houses

- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Energy efficient heating only system based on air to water heat pump technology
- › Flexible configuration with respect to heat emitters
- › Outdoor unit extracts heat from the outdoor air, even at -25°C

Efficiency data			EHVH + ERLQ	04S18CB3V + 004CV3	08S18CB3V/ 08S26CB9W + 006CV3	08S18CB3V/ 08S26CB9W + 008CV3	11S18CB3V/ 11S26CB9W + 011CV3	16S18CB3V/ 16S26CB9W + 014CV3	16S18CB3V/ 16S26CB9W + 016CV3	11S18CB3V/ 11S26CB9W + 011CW1	16S18CB3V/ 16S26CB9W + 014CW1	16S18CB3V/ 16S26CB9W + 016CW1	
Heating capacity	Min.		kW	1.80 (1) / 1.80 (2)			-						
	Nom.		kW	4.40 (1) / 4.03 (2)	6.00 (1) / 5.67 (2)	7.40 (1) / 6.89 (2)	11.2 (1) / 11.00 (2)	14.5 (1) / 13.60 (2)	16 (1) / 15.20 (2)	11.2 (1) / 11.00 (2)	14.5 (1) / 13.60 (2)	16 (1) / 15.20 (2)	
	Max.		kW	5.12 (1) / 4.90 (2)	8.35 (1) / 7.95 (2)	10.02 (1) / 9.53 (2)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)	
	Power input	Heating	Nom.	kW	0.87 (1) / 1.13 (2)	1.27 (1) / 1.59 (2)	1.66 (1) / 2.01 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)
Max.			kW	-			3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)	3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)	
Nominal efficiency COP					5.04 (1) / 3.58 (2)	4.74 (1) / 3.56 (2)	4.45 (1) / 3.42 (2)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)

Indoor unit				EHVH	04S18CB3V	08S18CB3V / 08S26CB9W	11S18CB3V / 11S26CB9W	16S18CB3V / 16S26CB9W	11S18CB3V / 11S26CB9W	16S18CB3V / 16S26CB9W
Casing	Colour	White								
	Material	Precoated sheet metal								
Dimensions	Unit	HeightxWidthxDepth	mm		1,732x600x728					
Weight	Unit		kg		116	117/126	117/126	118/127	117/126	118/127
Tank	Water volume		l		180	180/260				
	Insulation	Heat loss	kWh/24h		1.4	1.4/1.9				
	Corrosion protection	Anode								
Sound power level	Cooling		dBA		42	-				
Sound pressure level	Cooling	Nom.	dBA		28	-				

Outdoor unit				ERLQ	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeightxWidthxDepth		mm	735x832x307			1,345x900x320					
Weight	Unit			kg	54	56		113		114			
Operation range	Heating	Ambient	Min.~Max.	°CDB	-25~25			-25~35					
	Domestic hot water	Ambient	Min.~Max.	°CWB	-25~35			-20~35					
Refrigerant	Type / GWP				R-410A / 2,0875								
	Charge			kg	1.45	1.6		3.4					
	Charge			TCO _{Eq}	3.0	3.3		7.1					
Sound power level	Heating			dBA	61		62	64		66	64		66
Sound pressure level	Heating	Nom.			dBA	48		49	51		52	51 52	
Power supply	Phase / Frequency / Voltage			Hz / V	V3/1~/50/230						W1/3N~/50/400		
Current - 50Hz	Maximum fuse amps (MFA)			A	20			40			20		

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C)

(3) Condition 3: heating Ta DB -7°C (RH85%) - LWC 35°C (4) Condition 4: heating Ta DB -7°C (RH85%) - LWC 45°C

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EWAD-TZ Air cooled inverter screw chiller

- › **High efficiencies both at full load and part load:**
EER up to 3.57 and ESEER up to 5.73
- › **Rapid return on investment**
- › **Perfect comfort** level
- › **Compact design**
- › **Lowest sound** levels
- › Unrivalled and proven **reliability**



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SEHVX-AAW+SERHQ-AAW1 Air cooled scroll inverter heat pump, split version

- › **Hydronic module for indoor installation**
eliminating the need for glycol
- › **Ideal for colder climates** as the lack of glycol will allow for high efficiencies
- › **Compact dimensions** and **limited pipework** allow for installation in very restricted spaces
- › **Easy transportation** as separate units will fit in an elevator



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D-AHU Compact High-end air handling unit solution with heat recovery

- › **Predefined** sizes
- › **Plug & Play** concept
- › EC fan technology
- › **High efficiency** heat wheel
- › **Compact design**
- › Innovative **controls**



p.410

CCU/SCU Ideal solution for small food retailers

- › Micro channel heat exchanger
- › Improved accessibility: **Hinged doors**
- › **Efficient** compressor technology
- › Plug and play solution
- › Compliant to **Eco-design**



Daikin Altherma low temperature split



Efficiency data				EHV + ERHQ	11S18CB3V / 11S26CB9W + 011BV3	16S18CB3V / 16S26CB9W + 014BV3	16S18CB3V / 16S26CB9W + 016BV3	11S18CB3V / 11S26CB9W + 011BW1	16S18CB3V / 16S26CB9W + 014BW1	16S18CB3V / 16S26CB9W + 016BW1
Heating capacity	Nom.			kW	11.2 (1) / 10.3 (2)	14.0 (1) / 13.1 (2)	16.0 (1) / 15.2 (2)	11.32 (1) / 10.98 (2)	14.50 (1) / 13.57 (2)	16.05 (1) / 15.11 (2)
Power input	Heating	Nom.		kW	2.55 (1) / 3.17 (2)	3.26 (1) / 4.04 (2)	3.92 (1) / 4.75 (2)	2.63 (1) / 3.24 (2)	3.42 (1) / 4.21 (2)	3.82 (1) / 4.69 (2)
Nominal efficiency	COP				4.39 (1) / 3.25 (2)	4.29 (1) / 3.24 (2)	4.08 (1) / 3.20 (2)	4.30 (1) / 3.39 (2)	4.24 (1) / 3.22 (2)	4.20 (1) / 3.22 (2)

Indoor unit				EHVH	11S18CB3V / 11S26CB9W	16S18CB3V / 16S26CB9W		11S18CB3V / 11S26CB9W	16S18CB3V / 16S26CB9W	
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm	1,732x600x728						
Weight	Unit				kg	117/126	118/127		117/126	118/127
Sound power level	Cooling				dBA	-				
Sound pressure level	Cooling	Nom.		dBA	-					

Outdoor unit				ERHQ	011BV3	014BV3	016BV3	011BW1	014BW1	016BW1	
Dimensions	Unit	HeightxWidthxDepth	mm	1,170x900x320				1,345x900x320			
Weight	Unit				kg	103		108			
Operation range	Heating	Ambient	Min.~Max.	°CDB	-20~35						
	Domestic hot water	Ambient	Min.~Max.	°CWB	-20~35						
Refrigerant	Type / GWP				R-410A / 2,087.5						
	Charge				kg	2.7		2.95			
	Charge				TCO.Eq	5.6		6.2			
Sound power level	Heating				dBA	64		66	64	66	
Sound pressure level	Heating	Nom.		dBA	49	51	53	51		52	
Power supply	Phase / Frequency / Voltage			Hz / V	V3/1~/50/230				W1/3N~/50/400		
Current - 50Hz	Maximum fuse amps (MFA)			A	32				20		

(1) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) - (2) DB/WB 7°C/6°C - LWC 45°C (DT=5°C)



Why choose R32 refrigerant?

Daikin is renowned for its pioneering approach to product development. As part of its commitment to the environment, Daikin aims to develop systems that improve comfort levels while having low environmental impact.

A key factor is the use of refrigerants, assessed on following criteria: Global Warming Potential (GWP), energy efficiency and natural resource efficiency. R32 has a GWP of 675, compared with R410A's GWP of 2,088, a reduction of 68%. R32 products can also achieve higher efficiency levels both in part load and full load conditions and R32 is a single component refrigerant, which makes it easy to recycle.

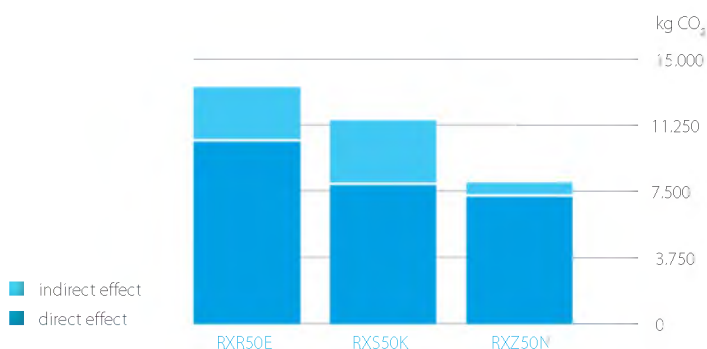
Wide range of R32 units available

In 2013, R32 was introduced by Daikin with the new Ururu Sarara range. From 2015 onwards, also Daikin Emura and the FTXM-K are offered with R32 refrigerant.

Lowest environmental impact

SEER AND SCOP up to A+++

› Low GWP refrigerant R32



Daikin Altherma low temperature split



Floor standing air to water heat pump for heating, cooling and hot water, ideal for low energy houses

- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › Energy efficient heating and cooling system based on air to water heat pump technology
- › Flexible configuration with respect to heat emitters
- › Outdoor unit extracts heat from the outdoor air, even at -25°C

Efficiency data			EHVX + ERLQ	04S18CB3V + 004CV3	08S18CB3V / 08S26CB9W + 006CV3	08S18CB3V / 08S26CB9W + 008CV3	11S18CB3V / 11S26CB9W + 011CV3	16S18CB3V / 16S26CB9W + 014CV3	16S18CB3V / 16S26CB9W + 016CV3	11S18CB3V / 11S26CB9W + 011CW1	16S18CB3V / 16S26CB9W + 014CW1	16S18CB3V / 16S26CB9W + 016CW1
Heating capacity	Min.		kW	1.80 (1) / 1.80 (2)			-					
	Nom.		kW	4.40 (1) / 4.03 (2)	6.00 (1) / 5.67 (2)	7.40 (1) / 6.89 (2)	11.2 (1) / 11.00 (2)	14.5 (1) / 13.60 (2)	16 (1) / 15.20 (2)	11.2 (1) / 11.00 (2)	14.5 (1) / 13.60 (2)	16 (1) / 15.20 (2)
	Max.		kW	5.12 (1) / 4.90 (2)	8.35 (1) / 7.95 (2)	10.02 (1) / 9.53 (2)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)
Cooling capacity	Min.			2.00 (1) / 2.00 (2)	2.50 (1) / 2.50 (2)		-					
	Nom.			4.08 (1) / 4.17 (2)	5.88 (1) / 4.84 (2)	6.20 (1) / 5.36 (2)	12.13 (1) / 11.72 (2)	12.72 (1) / 12.55 (2)	13.79 (1) / 13.12 (2)	12.13 (1) / 11.72 (2)	12.72 (1) / 12.55 (2)	13.79 (1) / 13.12 (2)
Power input	Heating	Nom.	kW	0.87 (1) / 1.13 (2)	1.27 (1) / 1.59 (2)	1.66 (1) / 2.01 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)
		Max.	kW	-			3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)	3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)
	Cooling	Nom.	kW	0.90 (1) / 1.80 (2)	1.51 (1) / 2.07 (2)	1.64 (1) / 2.34 (2)	3.05 (1) / 4.31 (2)	3.21 (1) / 5.08 (2)	3.74 (1) / 5.73 (2)	3.05 (1) / 4.31 (2)	3.21 (1) / 5.08 (2)	3.74 (1) / 5.73 (2)
		EER			5.04 (1) / 3.58 (2)	4.74 (1) / 3.56 (2)	4.45 (1) / 3.42 (2)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)

Indoor unit			EHVX	04S18CB3V	08S18CB3V / 08S26CB9W	11S18CB3V / 11S26CB9W	16S18CB3V / 16S26CB9W	11S18CB3V / 11S26CB9W	16S18CB3V / 16S26CB9W
Casing	Colour	White							
	Material	Precoated sheet metal							
Dimensions	Unit	HeightxWidthxDepth	mm	1,732x600x728					
Weight	Unit		kg	117	119/128		120/129	119/128	120/129
Tank	Water volume		l	180			180/260		
	Insulation	Heat loss	kWh/24h	1.4			1.4/1.9		
	Corrosion protection			Anode					
Sound power level	Cooling		dBA	42			-		
Sound pressure level	Cooling	Nom.	dBA	28			-		

Outdoor unit			ERLQ		004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeightxWidthxDepth	mm		735x832x307			1,345x900x320					
Weight	Unit		kg		54	56		113			114		
Operation range	Heating	Ambient	Min.~Max.	°CDB	-25~25			-25~35					
	Cooling	Ambient	Min.~Max.	°CWB	10~43			10~46					
	Domestic hot water	Ambient	Min.~Max.	°CWB	-25~35			-20~35					
Refrigerant	Type / GWP				R-410A / 2,087.5								
	Charge			kg	1.45	1.6		3.4					
	Charge			TCO _{Eq}	3.0	3.3		7.1					
Sound power level	Cooling			dBA	61		62	64		66	64		66
	Heating			dBA	63			64	66	69	64	66	69
Sound pressure level	Cooling	Nom./Silent operation	dBA		48		49	51		52	51		52
	Heating	Nom.	dBA		48	49	50	50	52	54	50	52	54
Power supply	Phase / Frequency / Voltage			Hz / V	V3/1~/50/230						W1/3N~/50/400		
Current - 50Hz	Maximum fuse amps (MFA)			A	20			40		20			

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) Condition 3: heating Ta DB -7°C (RH85%) - LWC 35°C (4) Condition 4: heating Ta DB -7°C (RH85%) - LWC 45°C

Replacement day will come... Why wait?

Service and maintenance with R-22 will be prohibited after January 1st, 2015, meaning repairs will be impossible to R-22 systems. Avoid unexpected downtime for your customers and replace these systems now!



Installer benefits

Less installation time

Tackle more projects in less time thanks to **faster installation**. It is more profitable than replacing the full system with new piping.

Lower installation costs

Reducing installation costs enables you to offer customers the most **cost-effective** solution and improve your competitive edge.

Replace competitor systems

It is a trouble-free replacement solution for Daikin systems and for systems made by other manufacturers.

Optimize your business

A simple solution for replacement technology enables you to **handle more projects** for more customers in less time and offer them the best price! Everybody gains.

Customer benefits

Save on running costs

Comparison based on EER

(efficiency of a residential product in cooling mode)



Comparison based on SEER

(efficiency of a residential product according to current seasonal legislation of a product in cooling mode)



No disturbance

Re-use your **existing piping** ensuring a quick and quality replacement allowing work to be done without affecting your comfort or business

Upgrade your comfort

Upgrade your comfort with cutting-edge design, low noise levels, wifi controls and more...

Daikin Altherma low temperature split



Efficiency data				EHVX + ERHQ	11S18CB3V / 11S26CB9W + 011BV3	16S18CB3V / 16S26CB9W + 014BV3	16S18CB3V / 16S26CB9W + 016BV3	11S18CB3V / 11S26CB9W + 011BW1	16S18CB3V / 16S26CB9W + 014BW1	16S18CB3V / 16S26CB9W + 016BW1
Heating capacity	Nom.			kW	11.2 (1) / 10.30 (2)	14.0 (1) / 13.1 (2)	16.0 (1) / 15.2 (2)	11.32 (1) / 10.98 (2)	14.50 (1) / 13.57 (2)	16.05 (1) / 15.11 (2)
Cooling capacity	Nom.			kW	13.9 (1) / 10.0 (2)	17.3 (1) / 12.5 (2)	17.8 (1) / 13.1 (2)	15.05 (1) / 11.72 (2)	16.06 (1) / 12.55 (2)	16.76 (1) / 13.12 (2)
Power input	Heating	Nom.		kW	2.55 (1) / 3.17 (2)	3.26 (1) / 4.04 (2)	3.92 (1) / 4.75 (2)	2.63 (1) / 3.24 (2)	3.42 (1) / 4.21 (2)	3.82 (1) / 4.69 (2)
	Cooling	Nom.		kW	3.86 (1) / 3.69 (2)	5.86 (1) / 5.39 (2)	6.87 (1) / 5.95 (2)	4.53 (1) / 4.31 (2)	5.43 (1) / 5.08 (2)	6.16 (1) / 5.73 (2)
Nominal efficiency	COP				4.39 (1) / 3.25 (2)	4.29 (1) / 3.24 (2)	4.08 (1) / 3.20 (2)	4.30 (1) / 3.39 (2)	4.24 (1) / 3.22 (2)	4.20 (1) / 3.22 (2)
	EER				3.60 (1) / 2.71 (2)	2.95 (1) / 2.32 (2)	2.59 (1) / 2.20 (2)	3.32 (1) / 2.72 (2)	2.96 (1) / 2.47 (2)	2.72 (1) / 2.29 (2)
Indoor unit				EHVX	11S18CB3V / 11S26CB9W	16S18CB3V / 16S26CB9W		11S18CB3V / 11S26CB9W	16S18CB3V / 16S26CB9W	
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	1,732x600x728					
Weight	Unit			kg	119/128	120/129		119/128	120/129	
Sound power level	Cooling	Nom.		dBA	-					
Sound pressure level	Cooling	Nom.		dBA	-					
Outdoor unit				ERHQ	011BV3	014BV3	016BV3	011BW1	014BW1	016BW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,170x900x320			1,345x900x320		
Weight	Unit			kg	103			108		
Operation range	Heating	Ambient	Min.~Max.	°CDB	-20~35			-25~35		
	Cooling	Ambient	Min.~Max.	°CDB	10~46					
	Domestic hot water	Ambient	Min.~Max.	°CWB	-20~35					
Refrigerant	Type / GWP				R-410A / 2,087.5					
	Charge			kg	2.7			2.95		
	Charge			TCO _{Eq}	5.6			6.2		
Sound power level	Heating			dBA	64		66	64		66
	Cooling			dBA	64	66	69	64	66	69
Sound pressure level	Heating	Nom.		dBA	49	51	53	51		52
	Cooling	Nom.		dBA	50	52	54	50	52	54
Power supply	Phase / Frequency / Voltage			Hz / V	V3/1~/50/230			W1/3N~/50/400		
Current - 50Hz	Maximum fuse amps (MFA)			A	32			20		

(1) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) - (2) DB/WB 7°C/6°C - LWC 45°C (DT=5°C)



Seasonal efficiency, smart use of energy

The EU wants to make people aware of what units are consuming and ban non-efficient products from the market. Seasonal efficient units reflect the standardised conditions you can expect over an entire heating and cooling season. The standard came into force in January 2013 for air-to-air heat pumps under 12 kW.

From September 2015 onwards, not only air-to-air heat pumps but also heating systems like heat pumps, combustion, domestic hot water tanks or any kind of combination, will receive an energy label to help the customer to make the most efficient choice.

Today, Daikin is leading the way towards more efficient and cost-effective comfort solutions. All Daikin products – residential and commercial as well as industrial – are seasonal efficient, they all reduce energy and costs in a smart way.



SEASONAL EFFICIENCY
Smart use of energy

Find out more on www.daikin.eu



Daikin Altherma low temperature split



Wall mounted heating only air to water heat pump ideal for low energy houses

- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Wall mounted indoor unit
- › Energy efficient heating only system based on air to water heat pump technology
- › Flexible configuration with respect to heat emitters
- › Possible to combine with domestic hot water
- › Outdoor unit extracts heat from the outdoor air, even at -25°C

Efficiency data				EHBH + ERLQ	04CB3V + 004CV3	08CB3V / 08CB9W + 006CV3	08CB3V / 08CB9W + 008CV3	11CB3V / 11CB9W + 011CV3	16CB3V / 16CB9W + 014CV3	16CB3V / 16CB9W + 016CV3	11CB3V / 11CB9W + 011CW1	16CB3V / 16CB9W + 014CW1	16CB3V / 16CB9W + 016CW1	
Heating capacity	Min.			kW	1.80 (1) / 1.80 (2)			-						
	Nom.			kW	4.40 (1) / 4.03 (2)	6.00 (1) / 5.67 (2)	7.40 (1) / 6.89 (2)	11.2 (1) / 11.00 (2)	14.5 (1) / 13.60 (2)	16 (1) / 15.20 (2)	11.2 (1) / 11.00 (2)	14.5 (1) / 13.60 (2)	16 (1) / 15.20 (2)	
					kW	5.12 (1) / 4.90 (2)	8.35 (1) / 7.95 (2)	10.02 (1) / 9.53 (2)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)
	Max.			kW	5.12 (1) / 4.90 (2)	8.35 (1) / 7.95 (2)	10.02 (1) / 9.53 (2)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)	
Power input	Heating	Nom.		kW	0.87 (1) / 1.13 (2)	1.27 (1) / 1.59 (2)	1.66 (1) / 2.01 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)	
					kW	-			3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)	3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)
	Max.			kW	-			3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)	3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)	
					kW	-			3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)	3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)
Nominal efficiency COP						5.04 (1) / 3.58 (2)	4.74 (1) / 3.56 (2)	4.45 (1) / 3.42 (2)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)

Indoor unit				EHBH	04CB3V	08CB3V / 08CB9W	11CB3V / 11CB9W	16CB3V / 16CB9W	11CB3V / 11CB9W	16CB3V / 16CB9W
Casing	Colour	White								
	Material	Precoated sheet metal								
Dimensions	Unit	HeightxWidthxDepth	mm	890x480x344						
Weight	Unit		kg	41	43	43	44	43	44	
Sound power level	Cooling		dBA	40						
Sound pressure level	Cooling	Nom.	dBA	26						

Outdoor unit				ERLQ	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeightxWidthxDepth		mm	735x832x307			1,345x900x320					
Weight	Unit			kg	54	56		113		114			
Operation range	Heating	Ambient	Min.~Max.	°CDB	-25~25			-25~35					
	Domestic hot water	Ambient	Min.~Max.	°CWB	-25~35			-20~35					
Refrigerant	Type / GWP				R-410A / 2,0875								
	Charge			kg	1.45	1.6		3.4					
	Charge			TCO,Eq	3.0	3.3		71					
Sound power level	Heating			dBA	61		62	64		66	64		66
Sound pressure level	Heating	Nom./Silent operation		dBA	48		49	51		52	51		52
Power supply	Phase / Frequency / Voltage			Hz / V	V3/1~/50/230						W1/3N~/50/400		
Current - 50Hz	Maximum fuse amps (MFA)			A	20			40		20			

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) Condition 3: heating Ta DB -7°C (RH85%) - LWC 35°C (4) Condition 4: heating Ta DB -7°C (RH85%) - LWC 45°C

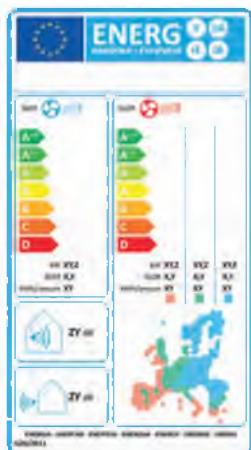
Seasonal efficiency, Smart use of energy

Challenging 20-20-20 environmental targets with Europe's energy label

The European Commission has set challenging targets for improving energy efficiency in the EU. These so-called 20-20-20 targets aim at a 20% reduction in CO₂ emissions, 20% share of renewable energy and a 20% reduction in the use of primary energy, all by the year 2020. To realise these objectives, Europe issued the Eco-Design Directive [2009/125/EC]. This sets minimum efficiency requirements for energy related products.

Air-to-Air heat pumps

Since 2013, all air conditioners and air-to-air heat pumps under 12 kW are in scope of this Eco-Design Directive. Products unable to comply with the minimum efficiency requirement (such as non-inverter air conditioners) will lose their CE marking and thus may no longer be sold in the European Union.



To inform consumers concerning these new energy performance standards, Europe also introduced a new energy label. The former European energy label, introduced in 1992, has had its effect. Consumers were able to compare and make purchasing decisions based on uniform labelling criteria. The new label that came into force on 1 January 2013 allows end-users to make even better informed choices, since seasonal efficiency reflects air conditioner efficiency over an entire season.

The energy label includes multiple classifications from A+++ to D reflected in colour shadings ranging from dark green (most energy efficient) to red (least efficient). Information on the label includes not only the new seasonal efficiency ratings for heating (SCOP) and cooling (SEER), but also annual energy consumption and sound levels.

Heating systems

From September 2015 onwards, space heaters, combi heaters (Lot 1) and domestic hot water heaters (Lot 2) will also have to comply with these 20-20-20 targets. This will give the opportunity to the end user to choose the most efficient heating system for his specific solution by for example comparing oil boilers with air-to-water heat pumps.

Next to the legally required labels, Daikin will offer full support to its network to implement the new labels into the market.

Daikin leading the way to seasonal efficiency

While the challenges of Eco-Design were immense, Daikin resolutely chose for early implementation of this new legislation. Already in 2010, Daikin launched a new light commercial range fully optimised for seasonal efficiency. The Seasonal Smart series in this range in fact immediately complied with the very challenging 2014 minimum requirements. Today Daikin is proud to indicate the seasonal performance of its entire residential and light commercial range up to 12 kW.



Although legislation for heating will only come into force from September 2015 onwards, Daikin is already preparing their units and communication tools to be ahead of legislation again.

Daikin Altherma low temperature split



Efficiency data				EBBH + ERHQ	11CB3V / 11CB9W + 011BV3	16CB3V / 16CB9W + 014BV3	16CB3V / 16CB9W + 016BV3	11CB3V / 11CB9W + 011BW1	16CB3V / 16CB9W + 014BW1	16CB3V / 16CB9W + 016BW1
Heating capacity	Nom.			kW	11.2 (1) / 10.3 (2)	14.0 (1) / 13.1 (2)	16.0 (1) / 15.2 (2)	11.32 (1) / 10.98 (2)	14.50 (1) / 13.57 (2)	16.05 (1) / 15.11 (2)
Power input	Heating	Nom.		kW	2.55 (1) / 3.17 (2)	3.26 (1) / 4.04 (2)	3.92 (1) / 4.75 (2)	2.63 (1) / 3.24 (2)	3.42 (1) / 4.21 (2)	3.82 (1) / 4.69 (2)
Nominal efficiency	COP				4.39 (1) / 3.25 (2)	4.29 (1) / 3.24 (2)	4.08 (1) / 3.20 (2)	4.30 (1) / 3.39 (2)	4.24 (1) / 3.22 (2)	4.20 (1) / 3.22 (2)

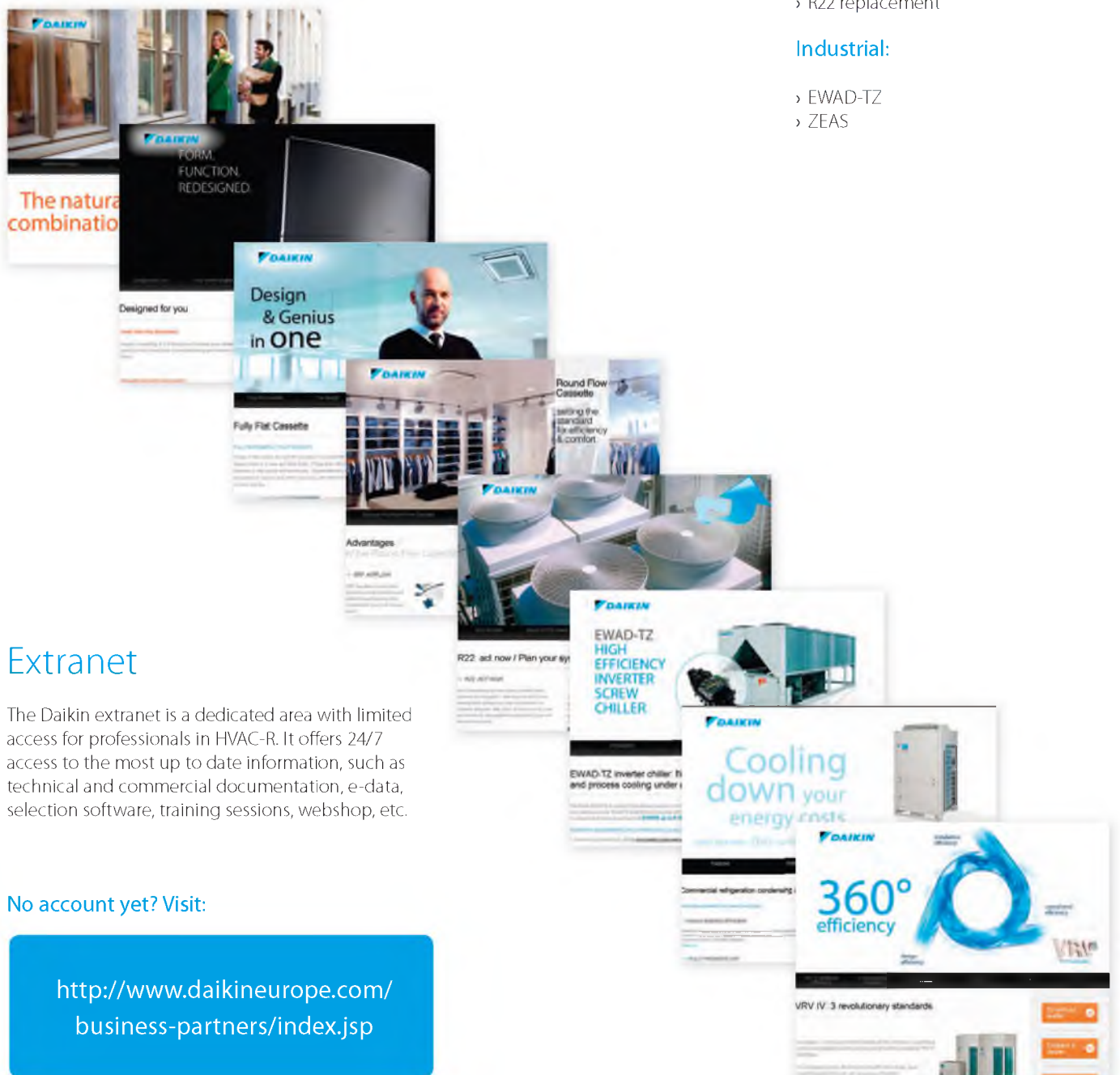
Indoor unit				EBBH	11CB3V / 11CB9W	16CB3V / 16CB9W		11CB3V / 11CB9W	16CB3V / 16CB9W	
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm		890x480x344					
Weight	Unit		kg		43	44		43	44	
Sound power level	Cooling		dBA		-					
Sound pressure level	Cooling	Nom.	dBA		-					

Outdoor unit				ERHQ	011BV3	014BV3	016BV3	011BW1	014BW1	016BW1
Dimensions	Unit	HeightxWidthxDepth	mm		1,170x900x320			1,345x900x320		
Weight	Unit		kg		103			108		
Operation range	Heating	Ambient	Min.~Max.	°CDB	-20~35			-25~35		
	Domestic hot water	Ambient	Min.~Max.	°CWB	-20~35					
Refrigerant	Type / GWP				R-410A / 2,087.5					
	Charge		kg		2.7			2.95		
	Charge		TCO _{Eq}		5.6			6.2		
Sound power level	Heating		dBA		64		66	64		66
Sound pressure level	Heating	Nom.	dBA		49	51	53	51		52
Power supply	Phase / Frequency / Voltage			Hz / V	V3/1~/50/230			W1/3N~/50/400		
Current - 50Hz	Maximum fuse amps (MFA)			A	32			20		

Have a question, looking for specific software applications, need detailed product information or looking for any other marketing tools? This overview gives you an idea of what we can offer ...

Mini sites

Some products need slightly more attention than others. That's why we have developed mini sites. These sites provide all information (specifications, video, animation, drawings,...) related to one specific topic. Below you can find some examples of minisites, which can easily be found on our website.



For your home:

- › Daikin Altherma hybrid heatpump
- › Daikin Emura

Commercial:

- › Fully flat cassette
- › Round flow cassette
- › VRV IV
- › R22 replacement

Industrial:

- › EWAD-TZ
- › ZEAS

Extranet

The Daikin extranet is a dedicated area with limited access for professionals in HVAC-R. It offers 24/7 access to the most up to date information, such as technical and commercial documentation, e-data, selection software, training sessions, webshop, etc.

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<http://www.daikineurope.com/business-partners/index.jsp>

Daikin Altherma low temperature split



Wall mounted reversible air to water heat pump ideal for low energy houses

- › Perfect fit for new built as well as for low energy houses
- › Best seasonal efficiencies, providing the highest savings on running costs
- › Wall mounted indoor unit
- › Energy efficient heating and cooling system based on air to water heat pump technology
- › Flexible configuration with respect to heat emitters
- › Possible to combine with domestic hot water
- › Outdoor unit extracts heat from the outdoor air, even at -25°C

Efficiency data			EHBX-CB + ERLQ	04CB3V + 004CV3	08CB3V / 08CB9W + 006CV3	08CB3V / 08CB9W + 008CV3	11CB3V / 11CB9W + 011CV3	14CB3V / 14CB9W + 014CV3	16CB3V / 16CB9W + 016CV3	11CB3V / 11CB9W + 011CW1	16CB3V / 16CB9W + 014CW1	16CB3V / 16CB9W + 016CW1
Heating capacity	Min.		kW	1.80 (1) / 1.80 (2)			-					
	Nom.		kW	4.40 (1) / 4.03 (2)	6.00 (1) / 5.67 (2)	7.40 (1) / 6.89 (2)	11.2 (1) / 11.00 (2)	14.5 (1) / 13.60 (2)	16 (1) / 15.20 (2)	11.2 (1) / 11.00 (2)	14.5 (1) / 13.60 (2)	16 (1) / 15.20 (2)
	Max.		kW	5.12 (1) / 4.90 (2)	8.35 (1) / 7.95 (2)	10.02 (1) / 9.53 (2)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)	8.6 (3) / 8.60 (4)	10.6 (3) / 10.80 (4)	11.4 (3) / 10.90 (4)
Cooling capacity	Min.			2.00 (1) / 2.00 (2)	2.50 (1) / 2.50 (2)			-				
	Nom.			4.08 (1) / 4.17 (2)	5.88 (1) / 4.84 (2)	6.20 (1) / 5.36 (2)	12.13 (1) / 11.72 (2)	12.72 (1) / 12.55 (2)	13.79 (1) / 13.12 (2)	12.13 (1) / 11.72 (2)	12.72 (1) / 12.55 (2)	13.79 (1) / 13.12 (2)
Power input	Heating	Nom.	kW	0.87 (1) / 1.13 (2)	1.27 (1) / 1.59 (2)	1.66 (1) / 2.01 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)	2.43 (1) / 3.10 (2)	3.37 (1) / 4.10 (2)	3.76 (1) / 4.66 (2)
		Max.	kW	-			3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)	3.13 (3) / 4.10 (4)	4.00 (3) / 5.19 (4)	4.32 (3) / 5.22 (4)
	Cooling	Nom.	kW	0.90 (1) / 1.80 (2)	1.51 (1) / 2.07 (2)	1.64 (1) / 2.34 (2)	3.05 (1) / 4.31 (2)	3.21 (1) / 5.08 (2)	3.74 (1) / 5.73 (2)	3.05 (1) / 4.31 (2)	3.21 (1) / 5.08 (2)	3.74 (1) / 5.73 (2)
		Max.	kW	-			4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)
Nominal efficiency	COP			5.04 (1) / 3.58 (2)	4.74 (1) / 3.56 (2)	4.45 (1) / 3.42 (2)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)	4.6 (1) / 2.75 (3) / 3.55 (2) / 2.10 (4)	4.3 (1) / 2.65 (3) / 3.32 (2) / 2.08 (4)	4.25 (1) / 2.64 (3) / 3.26 (2) / 2.09 (4)
	EER			4.55 (1) / 2.32 (2)	3.89 (1) / 2.34 (2)	3.79 (1) / 2.29 (2)	3.98 (1) / 2.72 (2)	3.96 (1) / 2.47 (2)	3.69 (1) / 2.29 (2)	3.98 (1) / 2.72 (2)	3.96 (1) / 2.47 (2)	3.69 (1) / 2.29 (2)

Indoor unit			EHBX	04CB3V	08CB3V / 08CB9W	11CB3V / 11CB9W	16CB3V / 16CB9W	11CB3V / 11CB9W	16CB3V / 16CB9W
Casing	Colour	White							
	Material	Precoated sheet metal							
Dimensions	Unit	HeightxWidthxDepth	mm	890x480x344					
Weight	Unit		kg	42	44	43	44	43	44
Sound power level	Cooling		dBA	40			-		
Sound pressure level	Cooling	Nom.	dBA	26			-		

Outdoor unit				ERLQ	004CV3	006CV3	008CV3	011CV3	014CV3	016CV3	011CW1	014CW1	016CW1
Dimensions	Unit	HeightxWidthxDepth		mm	735x832x307			1,345x900x320					
Weight	Unit			kg	54	56		113			114		
Operation range	Heating	Ambient	Min.~Max.	°CDB	-25~25			-25~35			10~46		
	Cooling	Ambient	Min.~Max.	°CWB	10~43			10.0~46.0			10~46		
	Domestic hot water	Ambient	Min.~Max.	°CWB	-25~35			-20~35					
Refrigerant	Type / GWP				R-410A / 2,087.5								
	Charge			kg	1.45	1.6		3.4					
	Charge			TCO Eq	3.0	3.3		7.1					
Sound power level	Cooling			dBA	61		62	64		66	64		66
	Heating			dBA	63			64	66	69	64	66	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	48		49	51		52	51		52
	Heating	Nom.		dBA	48	49	50	50	52	54	50	52	54
Power supply	Phase / Frequency / Voltage			Hz / V	V3/1~/50/230						W1/3N~/50/400		
Current - 50Hz	Maximum fuse amps (MFA)			A	20			40			20		

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) Condition 3: heating Ta DB -7°C (RH85%) - LWC 35°C (4) Condition 4: heating Ta DB -7°C (RH85%) - LWC 45°C

VRV app full 3D windows
 find simulate systems need
 unit data heat Available
 report coil detailed use coil High
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Daikin Altherma low temperature split



Efficiency data				EHBX + ERHQ	11CB3V / 11CB9W + 011BV3	16CB3V / 16CB9W + 014BV3	16CB3V / 16CB9W + 016BV3	11CB3V / 11CB9W + 011BW1	16CB3V / 16CB9W + 014BW1	16CB3V / 16CB9W + 016BW1
Heating capacity	Nom.			kW	11.2 (3) / 10.30 (4)	14.0 (3) / 13.1 (4)	16.0 (3) / 15.2 (4)	11.32 (1) / 10.98 (2)	14.50 (1) / 13.57 (2)	16.05 (1) / 15.11 (2)
Cooling capacity	Nom.			kW	13.9 (2) / 10.0 (1)	17.3 (2) / 12.5 (1)	17.8 (2) / 13.1 (1)	15.05 (1) / 11.72 (2)	16.06 (1) / 12.55 (2)	16.76 (1) / 13.12 (2)
Power input	Heating	Nom.		kW	2.55 (3) / 3.17 (4)	3.26 (3) / 4.04 (4)	3.92 (3) / 4.75 (4)	2.63 (1) / 3.24 (2)	3.42 (1) / 4.21 (2)	3.82 (1) / 4.69 (2)
	Cooling	Nom.		kW	3.86 (2) / 3.69 (1)	5.86 (2) / 5.39 (1)	6.87 (2) / 5.95 (1)	4.53 (1) / 4.31 (2)	5.43 (1) / 5.08 (2)	6.16 (1) / 5.73 (2)
Nominal efficiency	COP				4.39 (3) / 3.25 (4)	4.29 (3) / 3.24 (4)	4.08 (3) / 3.20 (4)	4.30 (1) / 3.39 (2)	4.24 (1) / 3.22 (2)	4.20 (1) / 3.22 (2)
	EER				3.60 (2) / 2.71 (1)	2.95 (2) / 2.32 (1)	2.59 (2) / 2.20 (1)	3.32 (1) / 2.72 (2)	2.96 (1) / 2.47 (2)	2.72 (1) / 2.29 (2)
Indoor unit				EHBX	11CB3V / 11CB9W	16CB3V / 16CB9W		11CB3V / 11CB9W	16CB3V / 16CB9W	
Casing	Colour				White					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth		mm	890x480x344					
Weight	Unit				kg	43	44		43	44
Sound power level	Cooling				dBA	-				
Sound pressure level	Cooling	Nom.		dBA	-					
Outdoor unit				ERHQ	011BV3	014BV3	016BV3	011BW1	014BW1	016BW1
Dimensions	Unit	HeightxWidthxDepth		mm	1,170x900x320			1,345x900x320		
Weight	Unit				kg	103			108	
Operation range	Heating	Ambient	Min.~Max.	°CDB	-20~35			-25~35		
	Cooling	Ambient	Min.~Max.	°CDB	10~46					
	Domestic hot water	Ambient	Min.~Max.	°CWB	-20~35					
Refrigerant	Type / GWP				R-410A / 2,087.5					
	Charge				kg	2.7			2.95	
	Charge				TCO _{Eq}	5.6			6.2	
Sound power level	Heating				dBA	64		66	64	66
	Cooling				dBA	64	66	69	64	66
Sound pressure level	Heating	Nom.		dBA	49	51	53	51		52
	Cooling	Nom.		dBA	50	52	54	50	52	54
Power supply	Phase / Frequency / Voltage			Hz / V	V3/1~/50/230			W1/3N~/50/400		
Current - 50Hz	Maximum fuse amps (MFA)			A	32			20		

(1) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) - (2) DB/WB 7°C/6°C - LWC 45°C (DT=5°C) (3) Condition 3: heating Ta DB -7°C (RH85%) - LWC 35°C (4) Condition 4: heating Ta DB -7°C (RH85%) - LWC 45°C



MC70L

The streamer technology air purifier, a blend of new technology, improved performance, and ultra quiet operation, is designed to care for you by unobtrusively providing **purified air** to produce a healthy home environment. Purified air improves the perception of **comfort** and, by **removing** and destroying **contaminants** and **odours**, the streamer technology air purifier also plays an essential role for those who suffer from **asthma** or **allergies**. These efforts place the streamer technology air purifier among the best residential air purifiers on the market today.

Three times purification, a good deed for your health

Pollen, dust and pet hair are just some of the potential causes of allergies, asthma and respiratory problems. A Daikin air purifier cleans the air and relieves you of these troubles thanks to a three-part operation:

- allergen removal
- virus and bacteria removal
- odour removal

What is the Daikin streamer technology ?

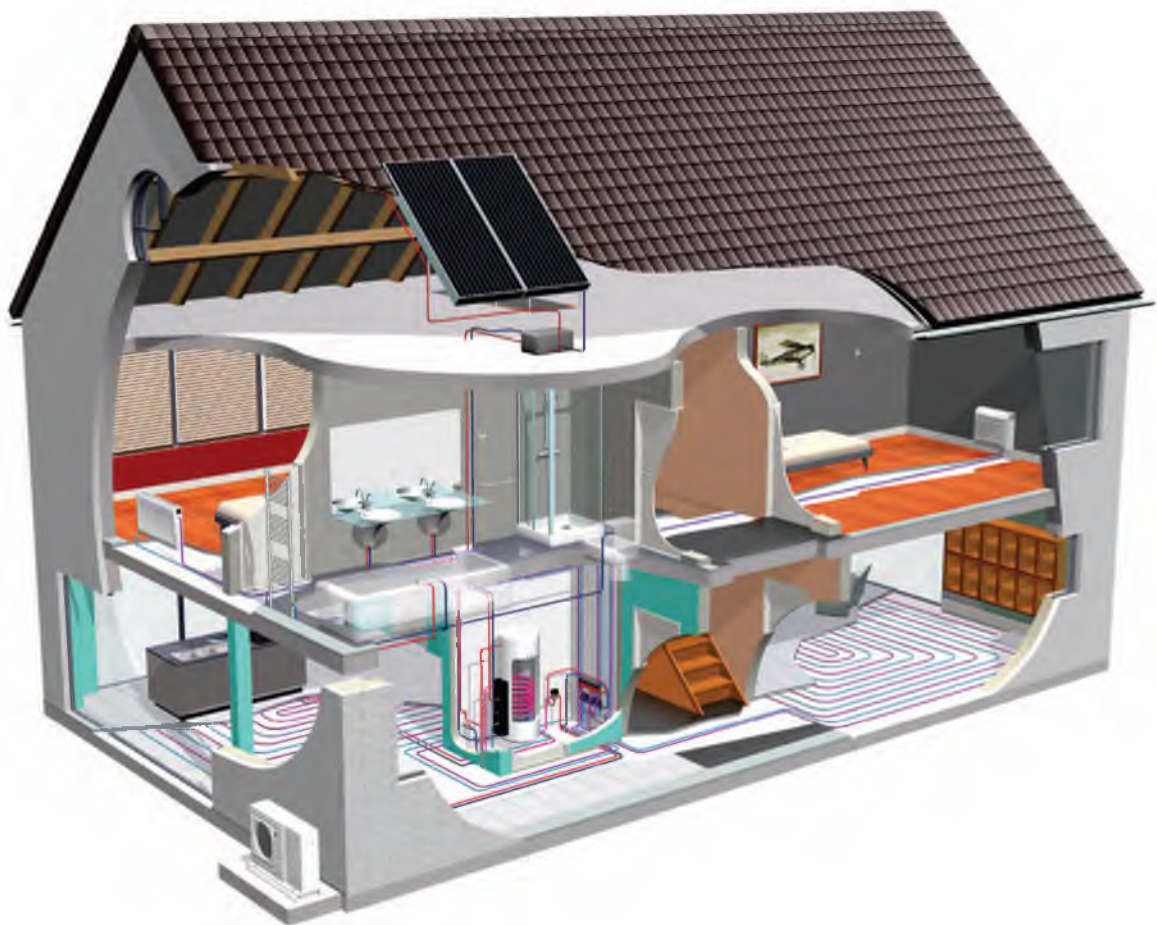
“Streamer Discharge” is a type of plasma discharge in which high speed electrons capable of **oxidative decomposition** are generated. It has the ability to **eliminate bacteria** and **mould** as well as hazardous **chemical substances** and **allergens**, etc. Compared to standard plasma discharge (glow discharge), the discharge range of Daikin’s Streamer Discharge is wider, which makes it easier for electrons to collide with oxygen and nitrogen in the air. This enables high speed electrons to be generated three dimensionally over a wide area, which results in an oxidative decomposition speed that is over 1,000 times greater with the same electrical power. Daikin’s Streamer Discharge technology has proven successful in stably generating high speed electrons, a feat that has been considered difficult up to now.

Main specifications

Daikin has already received great praise for its air purifiers: a British Allergy Foundation seal of approval and the TÜV Nord test mark confirm the efficiency of our units.

Small capacity monobloc

Available summer 2015



Navigation buttons

Info

Home

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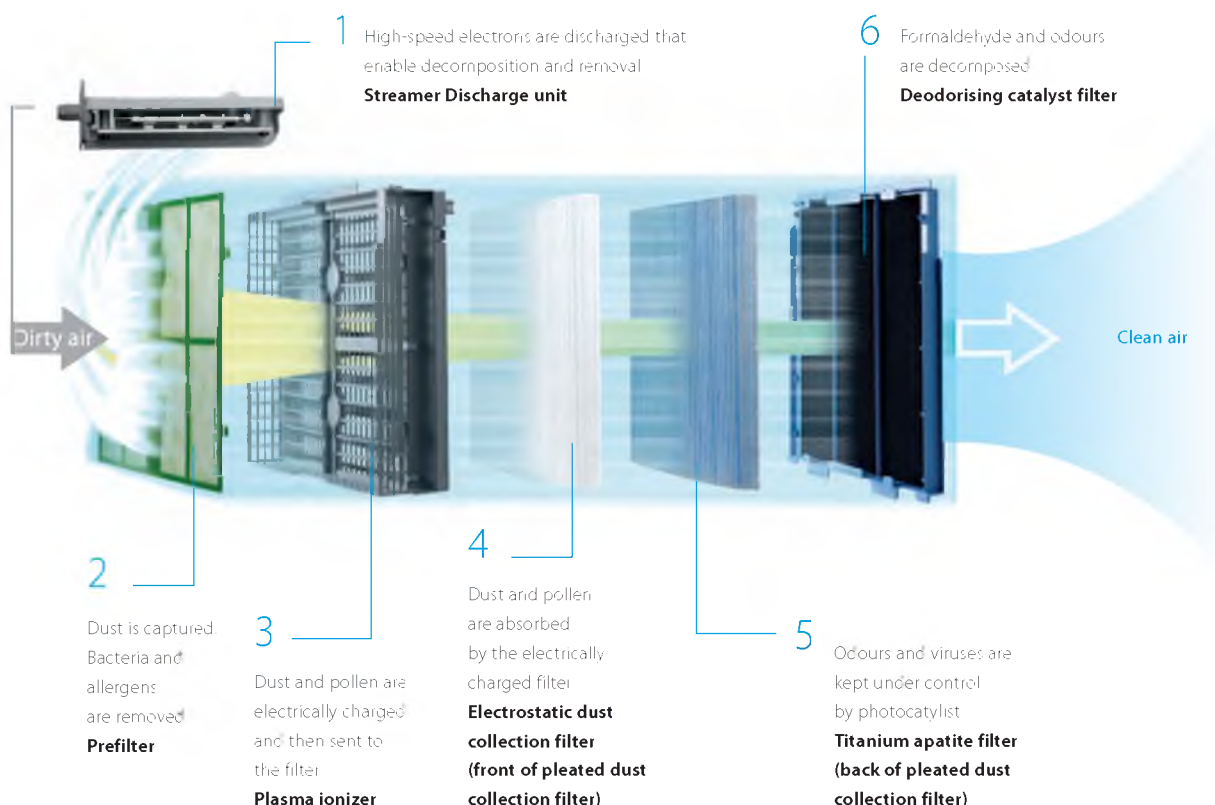
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Menu back

NI

- › Compact dimensions: reduction in height and width compared to the current model.
- › New capacities: 5 and 7 kW outdoor unit, guaranteed capacity down to -10°C.
- › Free hanging coil: it ensures no ice builds up on the lower part of the outdoor unit, to offer appropriate frost protection.
- › Discharge grill: specifically designed to avoid ice accumulation.
- › New controller: additional features like detailed information on operational conditions of the unit and full text error codes.

Six-layer powerful decomposition and removal configuration



- Stylish design
- Improved performance
- Unprecedented comfort
- Super quiet operation
- Easy to maintain
- Portable
- No installation



Indoor unit				MC70L
Applicable room area			m ²	46
Dimensions	Unit	HeightxWidthxDepth	mm	576x403x241
Weight	Unit		kg	8.5
Casing	Colour			White
Fan	Type			Multi Blade Fan (Sirocco fan with shroud assembly)
	Air flow rate	Air purifying operation	Turbo/High/Medium/Low/Silent	m ³ /h 420/285/210/130/55
Sound pressure level	Air purifying operation	Turbo/High/Medium/Low/Silent		dBA 48.0/39.0/32.0/24.0/16.0
Air purifying operation	Power input	Turbo/H/M/L/Silent		kW 0.065/0.026/0.016/0.010/0.007
Deodorizing method				Flash streamer / Titanium apatite photocatalytic filter / Deodorising catalyst
Bacteria filtering method				Flash streamer / Titanium apatite photocatalytic filter
Dust collecting method				Plasma ionizer / Electrostatic dust collection filter
Sign	Item	01/02/03/04/05/06/07/08/09/10/11		Dust: 3 stages/Odour: 3 stages/Automatic operation (LL-H)/Airflow rate (LL/L/M/H)/Turbo mode (HH)/Anti-pollen mode/Sleep mode/Lock (Anti-tamper)/Off timer (1.24h)/Maintenance: Filter replacement/Maintenance: Cleaning of ionization/streamer
Power supply	Phase/Voltage		V	1~/220-240/220-230

Daikin Altherma low temperature monobloc

- › Single phase reversible monobloc
- › Energy efficient heating and cooling system based on air to water heat pump technology
- › H2O piping between outdoor unit and indoor heat emitters
- › Low energy bills and low CO2 emissions
- › Eco-label certified
- › Built-in electric back-up heater as additional heating during extremely cold outdoor temperature
- › Inverter controlled swing compressor
- › Possible to combine with domestic hot water



Single Unit		EBHQ		006BBV3		008BBV3		EKCB(H/X) 008BCV3	
Heating capacity	Nom.		kW	6.00 (2) / 5.58 (4)		8.85 (2) / 8.15 (4)		-	
Cooling capacity	Nom.		kW	7.00 (1) / 5.12 (3)		8.37 (1) / 6.08 (3)		-	
Power input	Cooling	Nom.	kW	2.20 (1) / 2.16 (3)		2.97 (1) / 2.75 (3)		-	
	Heating	Nom.	kW	1.41 (2) / 1.79 (4)		2.21 (2) / 2.72 (4)		-	
COP				4.26 (2) / 3.11 (4)		4.00 (2) / 3.00 (4)		-	
EER				3.18 (1) / 2.37 (3)		2.82 (1) / 2.21 (3)		-	
Dimensions	Unit	Height	mm	805		390			
		Width	mm	1,190		412			
		Depth	mm	360		100			
		Depth with remocon mounted on front plate	mm	-		120			
Weight	Unit		kg	95		6			
Operation range	Heating	Ambient	Min.~Max. °CWB	-15~25		-~-			
		Water side	Min.~Max. °C	15~50 (5)		-~-			
	Cooling	Ambient	Min.~Max. °CDB	10~43		-~-			
		Water side	Min.~Max. °C	5~22		-~-			
	Domestic hot water	Ambient	Min.~Max. °CDB	-15~35		-~-			
		Water side	Min.~Max. °C	25~80		-~-			
	Indoor installation	Ambient	Min. °CDB	-		4			
			Max. °CDB	-		35			
Refrigerant	Type / GWP			R-410A / 2,087.5		-			
	Charge		kg	1.7		-			
	Charge		TCO _{Eq}	3.5		-			
Sound power level	Heating	Nom.	dBA	61		62		-	
	Cooling	Nom.	dBA	63		-			
Sound pressure level	Heating	Nom.	dBA	48		49		-	
	Cooling	Nom.	dBA	48		50		-	
Compressor component	Main power supply	Name		V3		-			
		Phase		1~		-			
		Frequency		50		-			
		Voltage		230		-			

(1) Tamb 35°C - LWE 18°C (DT=5°C) (2) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) (3) Tamb 35°C - LWE 7°C (DT=5°C) (4) DB/WB 7°C/6°C - LWC 45°C (DT=5°C)

(5) 15°C-25°C: BUH only, no heat pump operation = during commissioning

Humidification and purification in one

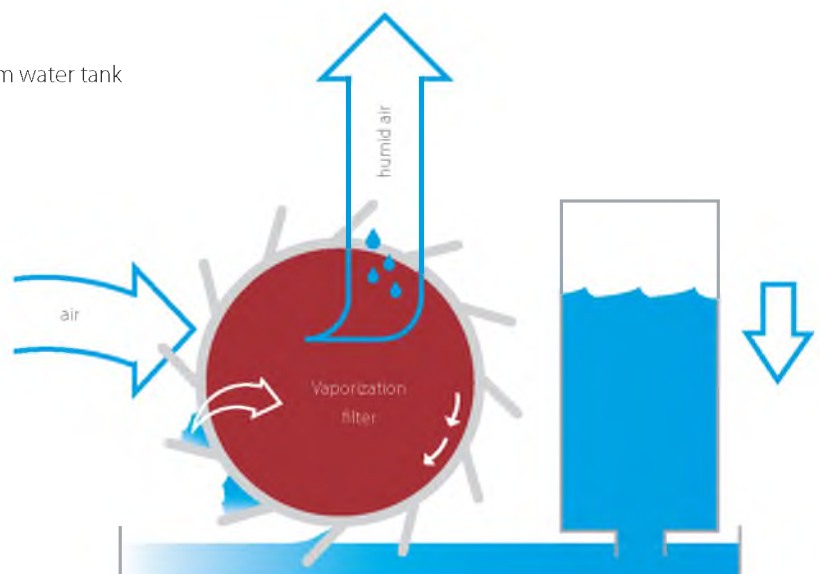
MCK75J

There are many substances in the air you breathe such as allergen, bacteria, virus and tobacco smoke, which causes your health to suffer. Above all things, dryness is especially a big issue during wintertime. Daikin Ururu Air Purifier **purifies and moisturizes** the air inside your home and relieves the effects of dry air. Just fill the 4l tank occasionally and it will humidify your room with a maximum volume of 600ml/h. This useful and innovative function stems from the incorporation of a slim line water tank and combined water wheel and vaporisation filter assembly.

- Humidification thanks to the slim water tank
- Air purification

How does the humidification function work?

Water in the tank flows into the receiver tray housing the water wheel, which lifts the water as it rotates and releases it onto the filter. Air blown onto the filter, absorbs its moisture and discharges it into the room as humidification.



Daikin has already received great praise for its air purifiers: the Daikin TÜV award confirms the efficiency of this unit.

Daikin Altherma low temperature monobloc

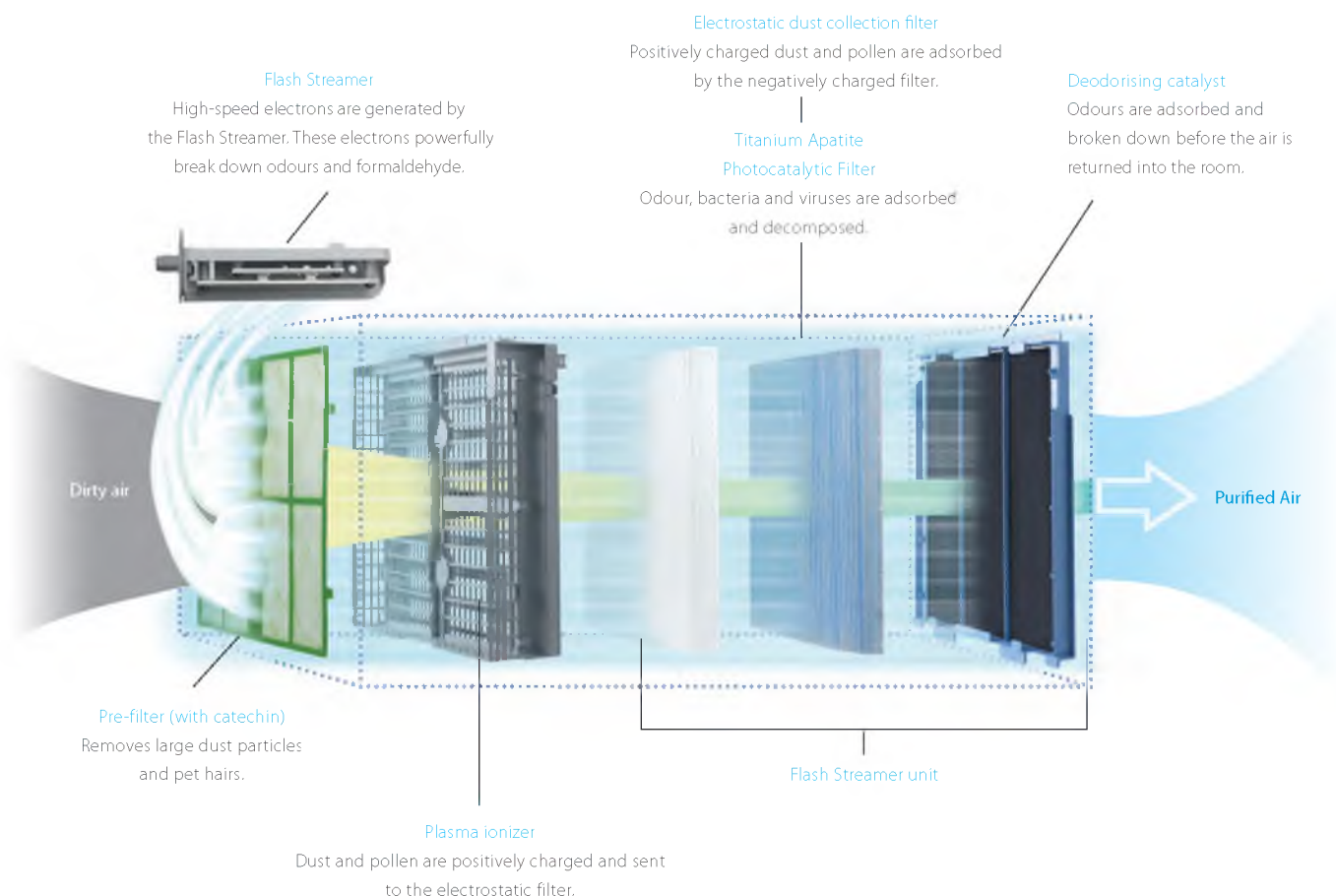
Reversible air to water monobloc system, ideal when indoor space is limited

- › Energy efficient **heating and cooling** system based on air to water heat pump technology
- › Low energy bills and low CO₂ emissions
- › H₂O piping between outdoor unit and indoor heat emitters
- › Inverter controlled scroll compressor
- › Built-in electric back-up heater as additional heating during extremely cold outdoor temperature
- › Outdoor unit extracts heat from the outdoor air, even at -25°C
- › Possible to combine with domestic hot water



Single Unit				EBLQ/EBHQ	011BB6V3	014BB6V3	016BB6V3	011BB6W1	014BB6W1	016BB6W1
Heating capacity	Nom.		kW		11.20 (1) / 10.87 (2)	14.00 (1) / 13.10 (2)	16.00 (1) / 15.06 (2)	11.20 (1) / 10.87 (2)	14.00 (1) / 13.10 (2)	16.00 (1) / 15.06 (2)
Cooling capacity	Nom.		kW		12.85 (1) / 10.00 (2)	15.99 (1) / 12.50 (2)	16.73 (1) / 13.10 (2)	12.85 (1) / 10.00 (2)	15.99 (1) / 12.50 (2)	16.73 (1) / 13.10 (2)
Power input	Cooling	Nom.	kW		3.87 (1) / 3.69 (2)	5.75 (1) / 5.39 (2)	6.36 (1) / 5.93 (2)	3.87 (1) / 3.69 (2)	5.40 (1) / 5.06 (2)	6.15 (1) / 5.75 (2)
	Heating	Nom.	kW		2.56 (1) / 3.31 (2)	3.29 (1) / 4.01 (2)	3.88 (1) / 4.71 (2)	2.60 (1) / 3.21 (2)	3.30 (1) / 4.07 (2)	3.81 (1) / 4.66 (2)
COP					4.38 (1) / 3.28 (2)	4.25 (1) / 3.27 (2)	4.12 (1) / 3.20 (2)	4.31 (1) / 3.38 (2)	4.24 (1) / 3.22 (2)	4.20 (1) / 3.23 (2)
EER					3.32 (1) / 2.71 (2)	2.78 (1) / 2.32 (2)	2.63 (1) / 2.21 (2)	3.32 (1) / 2.71 (2)	2.96 (1) / 2.47 (2)	2.72 (1) / 2.28 (2)
Dimensions	Unit	Height	mm		1,418					
		Width	mm		1,435					
		Depth	mm		382					
Weight	Unit		kg		180					
Hydraulic component	Back-up heater current	Type			6V3					
		Power supply phase/frequency/voltage	Hz/V		1~/50/230					
Operation range	Heating	Ambient	Min.~Max. °CWB		-20~35 (EBLQ)/-15~35 (EBHQ)					
		Water side	Min.~Max. °C		15~55 (3)					
	Cooling	Ambient	Min.~Max. °CDB		10~46					
		Water side	Min.~Max. °C		5~22					
	Domestic hot water	Ambient	Min.~Max. °CDB		-20~43 (EBLQ)/-15~43 (EBHQ)					
		Water side	Min.~Max. °C		25~80					
Refrigerant	Type / GWP				R-410A / 2,087.5					
	Charge		kg		2.95					
	Charge		TCO _{Eq}		6.2					
Sound power level	Heating	Nom.	dBA		64	65	66	64	65	66
	Cooling	Nom.	dBA		65	66	69	65	66	69
Sound pressure level	Heating	Nom.	dBA		51		52	49	51	53
	Cooling	Nom.	dBA		50	52	54	50	52	54
Compressor component	Main power supply	Name			V3					
		Phase			1~					
		Frequency	Hz		50					
		Voltage	V		230					
Compressor component	Main power supply	Name			W1					
		Phase			3N~					
		Frequency	Hz		50					
		Voltage	V		400					

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) 15°C-25°C: BUH only, no heat pump operation = during commissioning



How does the filter work?

Daikin Ururu Air Purifier also removes efficiently allergens (e.g. pollen, house dust mites, dust, etc.), bacteria and viruses. Additionally, it has a high deodorizing efficiency; it eliminates efficiently tobacco smoke whilst decomposing other smells. It quickly collects particles and breaks them down rapidly. Its quiet operation makes it ideal for quiet nights. The unit includes seven pleated filters (one for immediate use and 6 spares).



Indoor unit					MCK75J	
Application					Floor standing type	
Applicable room area				m ²	46	
Dimensions	Unit	Height	Width	Depth	mm	590x395x268
Weight	Unit	kg				
Casing	Colour	Black (N1) (Panel colour: silver)				
Fan	Type	Multi Blade Fan (Sirocco fan with shroud assembly)				
	Air flow rate	Air purifying operation	Turbo/High/Medium/Low/Silent	m ³ /h	450/330/240/150/60	
		Humidifying operation	Turbo/High/Medium/Low/Silent	m ³ /h	450/330/240/150/120	
Sound pressure level	Air purifying operation	Turbo/High/Medium/Low/Silent	dBA	50.0/43.0/36.0/26.0/17.0		
	Humidifying operation	Turbo/High/Medium/Low/Silent	dBA	50/43/36/26/23		
Humidifying operation	Power input	Turbo/H/M/L/Silent	kW	0.084/0.037/0.020/0.013/0.012		
	Humidification	Turbo/High/Medium/Low/Silent	ml/h	600/470/370/290/240		
	Water tank capacity		l	4.0		
Air purifying operation	Power input	Turbo/H/M/L/Silent	kW	0.081/0.035/0.018/0.011/0.008		
Deodorizing method					Flash streamer / Titanium apatite photocatalytic filter / Deodorising catalyst	
Dust collecting method					Plasma ionizer / Electrostatic dust collection filter	
Sign	Item	01	Dust: 3 stages / Odour: 3 stages / Air flow rate: auto/LL/L/M/H, Turbo mode HH, anti-pollen mode / Off timer: 1/4/8h / Cleaning: ionization/streamer			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	VM/1~/50/60/220-240/220-230	
Type	Humidifying air purifier					

Daikin Altherma low temperature monobloc

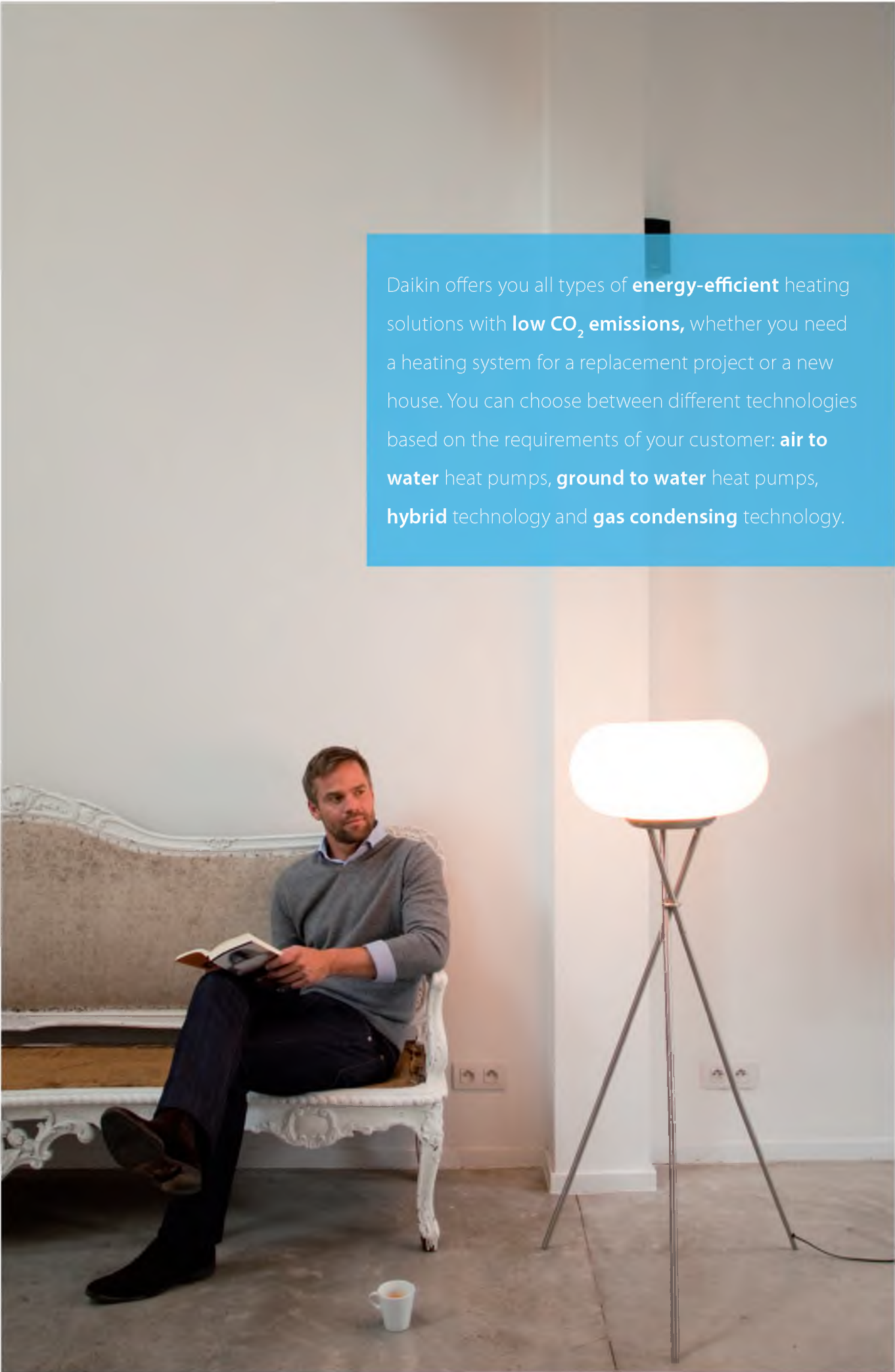
Heating only air to water monobloc system, ideal when indoor space is limited

- › Energy efficient **heating only** system based on air to water heat pump technology
- › Low energy bills and low CO₂ emissions
- › H₂O piping between outdoor unit and indoor heat emitters
- › Inverter controlled scroll compressor
- › Built-in electric back-up heater as additional heating during extremely cold outdoor temperature
- › Outdoor unit extracts heat from the outdoor air, even at -25°C
- › Possible to combine with domestic hot water



Single Unit			EDLQ/EDHQ	011BB6V3	014BB6V3	016BB6V3	011BB6W1	014BB6W1	016BB6W1
Heating capacity	Nom.		kW	11.20 / 10.87	14.00 / 13.10	16.00 / 15.06	11.20 / 10.87	14.00 / 13.10	16.00 / 15.06
Power input	Heating	Nom.	kW	2.56 / 3.31	3.29 / 4.01	3.88 / 4.71	2.60 / 3.21	3.30 / 4.07	3.81 / 4.66
COP				4.38 / 3.28	4.25 / 3.27	4.12 / 3.20	4.31 / 3.38	4.24 / 3.22	4.20 / 3.23
Dimensions	Unit	Height	mm	1,418					
		Width	mm	1,435					
		Depth	mm	382					
Weight	Unit		kg	180					
Hydraulic component	Back-up heater current	Type		6V3			6W1		
		Power supply Phase/Frequency/Voltage	Hz/V	1~/50/230			3~/50/400		
Operation range	Heating	Ambient	Min.~Max. °CWB	-20~35 (EDLQ)/-15~35 (EDHQ)			-25~35 (EDLQ)/-15~35 (EDHQ)		
		Water side	Min.~Max. °C	15~55					
	Domestic hot water	Ambient	Min.~Max. °CDB	-20~43 (EDLQ)/-15~43 (EDHQ)			-25~43 (EDLQ)/-15~43 (EDHQ)		
		Water side	Min.~Max. °C	25~80					
Refrigerant	Type / GWP			R-410A / 2,087.5					
	Charge		kg	2.95					
	Charge		TCO,Eq	6.2					
Sound power level	Heating	Nom.	dBA	64	65	66	64	65	66
Sound pressure level	Heating	Nom.	dBA	51		52	49	51	53
Compressor component	Main power supply	Name		V3			W1		
		Phase		1~			3N~		
		Frequency	Hz	50					
		Voltage	V	230			400		

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) (3) 15°C-25°C: BUH only, no heat pump operation = during commissioning

A man with a beard, wearing a grey sweater and dark trousers, is sitting on a white ornate chair, reading a book. To his right is a modern floor lamp with a tripod base and a large, glowing, oval-shaped lampshade. In the foreground, a small white cup of coffee sits on the floor. The background is a plain white wall with a decorative white bench or headboard behind the man. A blue text box is overlaid on the upper right portion of the image.

Daikin offers you all types of **energy-efficient** heating solutions with **low CO₂ emissions**, whether you need a heating system for a replacement project or a new house. You can choose between different technologies based on the requirements of your customer: **air to water** heat pumps, **ground to water** heat pumps, **hybrid** technology and **gas condensing** technology.

Domestic hot water tanks

Whether your customer wants domestic hot water only or the advantage of solar energy, Daikin offers you the domestic hot water tank that meets his or her requirements.

		Domestic hot water tank		
		EKHWP-B 300-500	EKHWS-B 150-200-300	EKHWE-A 150-200-300
Indoor				
Wall mounted	EHBH-CB	hot water + unpressurised solar*	hot water + pressurised solar (opt.)	
	EBHX-CB			
Monobloc		300-500	150-200-300	150-200-300
With bottom plate heater	EDLQ-BB6V3 / EDLQ-BB6W1	hot water + unpressurised solar*	hot water + pressurised solar (opt.)	
	EBLQ-BB6V3 / EBLQ-BB6V3			
Without bottom plate heater	EDHQ-BB6V3 / EDHQ-BB6W1			
	EBHQ-BB6V3 / EBHQ-BB6W1			
	EBHQ-BBV3			

* for more details see combination table on page 24.

EKHWP-B

Plastic domestic hot water tank with solar support

Available in 300 and 500 liters

- › Large hot water storage tank to provide domestic hot water at any time
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › Space heating support possible (500l tank only)



Accessory		EKHWP	300B	500B
Dimensions	Unit	Width	mm	595
		Depth	mm	615
Weight	Unit	Empty	kg	59
Tank	Water volume		l	300
	Maximum water temperature		°C	85
Insulation	Heat loss	kWh/24h	1.3	1.4
	Domestic hot water	Tube material	Stainless steel	
Heat exchanger		Face area	m ²	5.8
		Internal coil volume	l	27.9
		Operating pressure	bar	6
		Average specific thermal output	W/K	2,790
Charging		Tube material	Stainless steel	
		Face area	m ²	2.7
		Internal coil volume	l	13.2
		Operating pressure	bar	3
Auxiliary solar heating		Average specific thermal output	W/K	1,300
		Tube material	Stainless steel	
		Face area	m ²	-
		Internal coil volume	l	-
		Operating pressure	bar	3
		Average specific thermal output	W/K	-

Heating
















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Stainless steel domestic hot water tank

› Available in 150, 200 and 300 liters



Accessory		EKHWS	150B3V3	200B3V3	300B3V3	200B3Z2	300B3Z2	
Casing	Colour		Neutral white					
	Material		Epoxy-coated mild steel					
Dimensions	Unit	Width	mm	580				
		Depth	mm	580				
Weight	Unit	Empty	kg	37	45	59	45	59
Tank	Water volume		l	150	200	300	200	300
	Material			Stainless steel (DIN 1.4521)				
	Maximum water temperature		°C	85				
	Insulation	Heat loss	kWh/24h	1.55	1.77	2.19	1.77	2.19
Heat exchanger	Quantity			1				
	Tube material			Duplex steel LDX 2101				
Booster heater	Capacity		kW	3				
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230			2~/50/400	

Enameled domestic hot water tank

› Available in 150, 200 and 300 liters



Accessory		EKHWE		150A3V3	200A3V3	300A3V3	200A3Z2	300A3Z2
Casing	Colour	RAL9010						
	Material	Epoxy coated steel						
Dimensions	Unit	Diameter	mm	545		660	545	660
Weight	Unit	Empty	kg	80	104	140	104	140
Tank	Water volume		l	150	200	300	200	300
	Material	Enamel coated steel acc. DIN4753T1.2						
	Maximum water temperature		°C	75				
	Insulation	Heat loss	kWh/24h	1.7	1.9	2.5	1.9	2.5
Booster heater	Capacity	kW						
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230				2~/50/400	

Heating all-in-one Comfort for residential & commercial applications



Why choose a Daikin heating system?

- More than **50 years of experience** in heat pumps
- Innovative heating technologies to **reduce running costs** and optimise renewable energy usage
- Research and development **in Europe for Europe**
- A solution for any application
- Combinable with **all kinds of heat emitters**

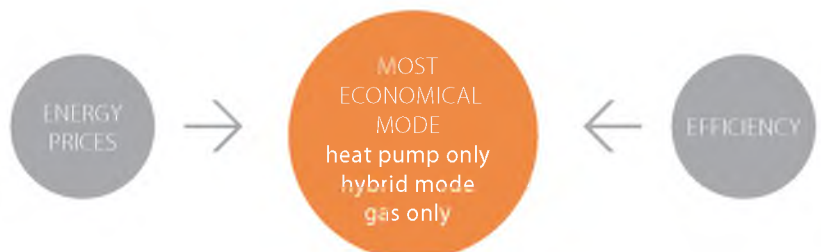
Innovative heating technologies to optimise renewable energy usage

Air to water technology: extracting heat from the outside air

- › Guaranteed heating capacity down to -25°C: no need to worry in winter time
- › Solar connection possible for domestic hot water support to optimise renewable energy use

Hybrid technology: gas condensing technology combined with air-to-water technology

- › Most economical operation mode is selected depending on energy prices, outdoor temperature and internal heat load
- › Optimisation of both technologies



Pump station

- › Save energy and reduce CO₂ emissions with a solar system for domestic hot water production
- › Pump station connectable to unpressurised solar system
- › Pump station and control provide the transfer of solar heat to the domestic hot water tank



Accessory				EKS RPS3	
Mounting				On side of tank	
Dimensions	Unit	HeightxWidthxDepth	mm	815x230x142	
Control	Type			Digital temperature difference controller with plain text display	
	Power consumption		W	2	
Power supply	Voltage		V	230	
Sensor	Solar panel temperature sensor			Pt1000	
	Storage tank sensor			PTC	
	Return flow sensor			PTC	
	Feed temperature and flow sensor			Voltage signal (3.5V DC)	

Solar connection

- › Transfers solar heat to the domestic hot water tank
- › Save energy and reduce CO₂ emissions with a solar system for domestic hot water production



Accessory				EKS OLHW	
Dimensions	Unit	HeightxWidthxDepth	mm	770x305x270	
Weight	Unit		kg	8	
Operation range	Ambient temperature	Min.~Max.	°C	1~35	
Sound pressure level	Nom.		dBA	27	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240	
Power supply intake				Indoor unit	

Wired remote control for pump station EKS RDS1A

- › Save energy and reduce CO₂ emissions with a solar system for domestic hot water production
- › Wired remote control for pump station EKS RDS1A, connectable to pressurised solar system
- › Pump station and control provide the transfer of solar heat to the domestic hot water tank

Accessory				EKS R3PA	
Mounting				On wall	
Dimensions	Unit	HeightxWidthxDepth	mm	332x230x145	
Control	Type			Digital temperature difference controller with plain text display	
	Power consumption		W	2	
Power supply	Voltage		V	230	
Sensor	Solar panel temperature sensor			Pt1000	
	Storage tank sensor			PTC	
	Return flow sensor			PTC	
	Feed temperature and flow sensor			Voltage signal (3.5V DC)	



Ground to water technology:

extracting heat from the ground

- › Ideal for climates where the average winter ambient temperature drops below 3°C
- › High seasonal efficiency thanks to stable underground temperatures

Gas condensing technology:

- › Low costs for BOTH heating and hot water thanks to new dual heat exchanger
- › Easy installation in minimum space by using our optional pre-assembled B-pack which contains all the components for the functional installation in one module and fits behind the boiler

Optimal comfort

... all combined into one system

- › Heating
- › Domestic hot water with optional solar support
- › Cooling
- › Easy control

A solution for any application

Residential applications

- › New built
- › Low energy houses
- › Renovation of complete heating system
- › Renovation without changing radiators/piping
- › Bivalent solution

Commercial applications

- › Apartments
- › Hotels
- › Restaurants
- › Spas and leisure

Combinable with all kinds of heat emitters

Depending on the needs of your customer, you can select a system combinable with

- › Under floor heating
- › Heat pump convectors
- › Low temperature radiators
- › High temperature radiators (up to 80°C)



Solar collector

Thermal solar collector for hot water production

- › Solar collectors can produce up to 70% of the energy needed for hot water production - a major cost saving
- › Vertical or horizontal solar collector for domestic hot water production
- › High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- › Easy to install on roof tiles



Accessory				EKSV21P	EKSV26P	EKSH26P
Dimensions	Unit	HeightxWidthxDepth	mm	2,000x1,006x85	2,000x1,300x85	1,300x2,000x85
Weight	Unit		kg	35	42	
Volume			l	1.3	1.7	2.1
Surface	Outer		m ²	2.01	2.6	
	Aperture		m ²	1.79	2.35	
	Absorber		m ²	1.8	2.36	
Coating	Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%)					
Absorber	Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate					
Glazing	Single pane safety glass, transmission +/- 92%					
Allowed roof angle	Min.~Max.		°	15~80		
Operating pressure	Max.		bar	6		
Stand still temperature	Max.		°C	200		



Wireless remote control

Room thermostat for easy regulation of the indoor temperature

- › Easy and convenient regulation of the indoor temperature, resulting in ideal comfort and energy efficiency
- › Heating and cooling mode, with possibility to disable cooling mode if not required
- › Comfort function mode activates the programmed temperature levels intended for a home occupied during the day; default setpoints are 21°C in heating mode and 24°C in cooling mode and can be changed by the user
- › Reduced function mode activates the programmed temperature levels for periods when the house is unoccupied or at night; default setpoints are 17°C in heating, 28°C in cooling mode and can be changed by the user
- › Scheduled function mode: uses a timer to schedule heating and cooling setpoints throughout the day; up to 12 setpoints can be programmed per day; the selected setpoints will be automatically activated at the scheduled time
- › Holiday function mode: intended for setting reduced and fuel-efficient setpoints when the house is unoccupied for long periods. The default setpoints are 14°C for heating and 30°C for cooling.
- › Off function: switches the system off; however, the integrated frost protection remains activated (set by default at 4°C).
- › Setpoint limitation sets the upper and lower setpoint limits within which the user can programme the desired comfort levels and can only be modified by the installer
- › Number of setpoint changes: 12/day
- › Key lock function: possible to lock the keys of the room thermostat



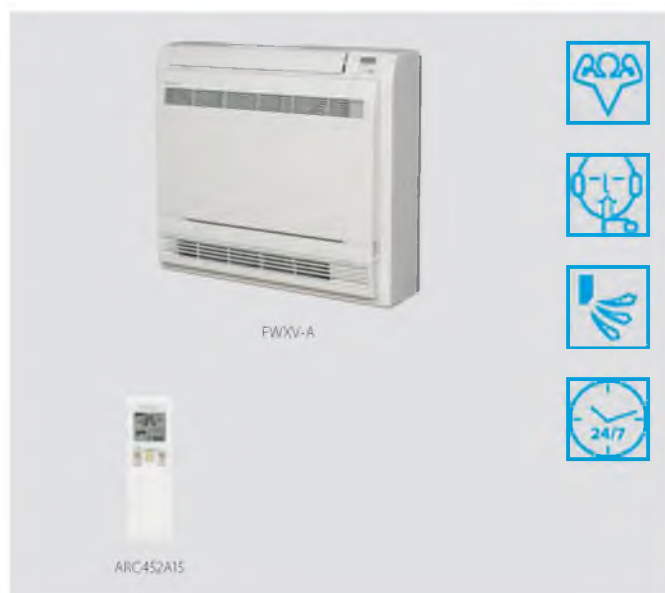
Accessory				EKTRR 1		EKRTWA	
Weight	Thermostat	HeightxWidthxDepth	mm	87x125x34			
	Receiver	HeightxWidthxDepth	mm	170x50x28		-x-x-	
	Unit		g	-		215	
	Thermostat		g	210		-	
	Receiver		g	125		-	
Ambient temperature	Storage	Min./Max.	°C	-20/60			
	Operation	Min./Max.	°C	0/50			
Temperature setting range	Heating	Min./Max.	°C	4/37			
	Cooling	Min./Max.	°C	4/37			
Clock				Yes			
Regulation function				Proportional band			
Power supply	Thermostat	Voltage	V	Battery powered 3x AA-LRG (alkaline)		Battery powered 3* AA-LR6 (alkaline)	
	Receiver	Voltage	V	230		-	
	Frequency		Hz	50		-	
	Phase			1~		-	
Connection	Type			-		Wired	
	Thermostat			Wireless		-	
	Receiver			Wired		-	
Maximum distance to receiver	Indoor		m	approx.30m		-	
	Outdoor		m	approx.100m		-	



Heat pump convector

Floor standing unit saving on running costs when combined with under floor heating thanks to its low leaving water temperatures

- › Its low height enables the unit to fit perfectly beneath a window
- › Can be installed against a wall or recessed
- › Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- › Energy efficient heating and cooling system based on air source heat pump technology
- › Optimum energy efficiency when connected to a Daikin Altherma low temperature system
- › Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- › Weekly timer can be set to start heating or cooling anytime on a daily or weekly basis
- › Powerful mode can be selected for rapid cooling; after the powerful mode is turned off, the unit returns to the preset mode.

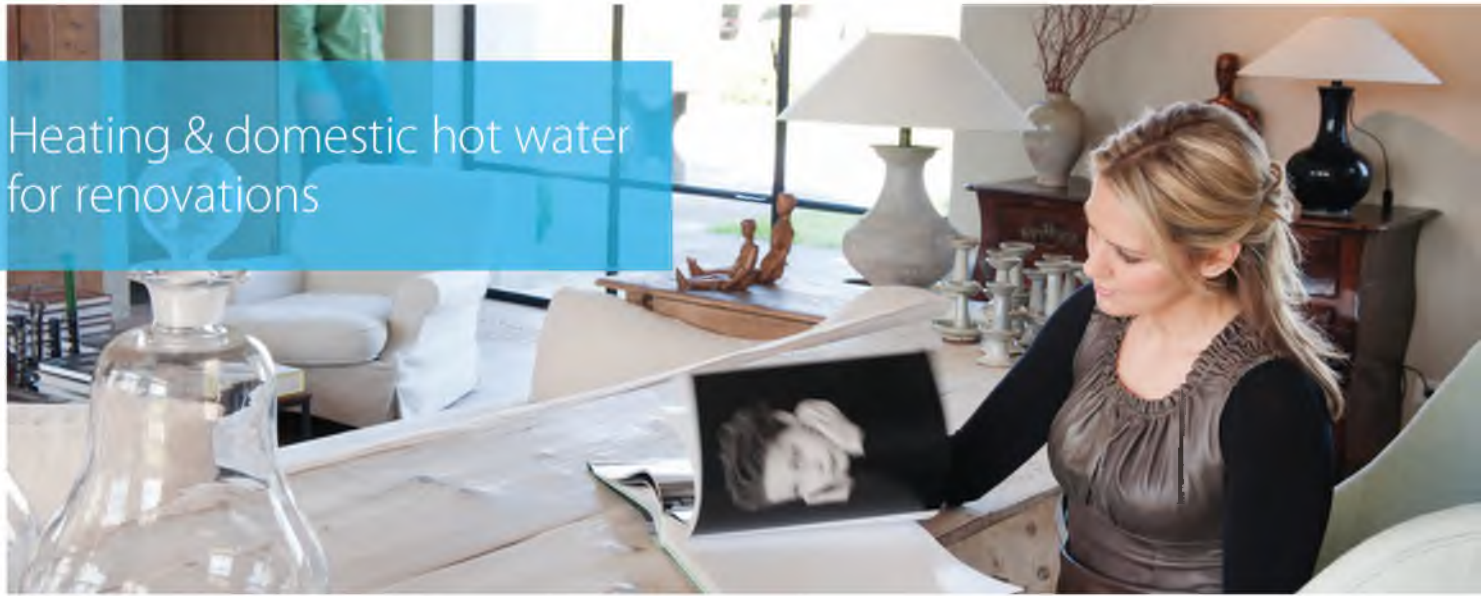


Indoor Unit			FWXV	15A	20A
Heating capacity	Total capacity	Nom.	kW	1.5	2.0
			Btu/h	5,100	6,800
Cooling capacity	Total capacity	Nom.	kW	1.2	1.7
	Sensible capacity	Nom.	kW	0.98	1.4
Power input	Heating	Nom.	kW	0.013	0.015
	Cooling	Nom.	kW	0.013	0.015
Dimensions	Unit	HeightxWidthxDepth	mm	600x700x210	
Weight	Unit		kg	15	
Piping connections	Drain/OD/Inlet/Outlet		mm/inch	18/G 1/2/G 1/2	
Sound pressure level	Heating	Nom.	dBA	19	29
	Cooling	Nom.	dBA	19	29
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220	

Products overview

	Hybrid	Ground source	Low temperature split
			
Heating application	<ul style="list-style-type: none"> › Ideal for new houses or replacement of a gas boiler 	<ul style="list-style-type: none"> › Ideal for new houses or replacement of a ground source heat pump 	<ul style="list-style-type: none"> › ideal for new houses, low energy houses or together with an existing boiler (bivalent)
Installation	<ul style="list-style-type: none"> › 1 indoor unit + 1 gas condensing boiler › 1 outdoor unit 	<ul style="list-style-type: none"> › 1 indoor unit 	<ul style="list-style-type: none"> › 1 indoor unit › 1 outdoor unit
Connectable heat emitters	<ul style="list-style-type: none"> › Under floor heating › Low and high temperature radiators 	<ul style="list-style-type: none"> › Low and high temperature radiators 	<ul style="list-style-type: none"> › Under floor heating › Low temperature radiators › Fan coil units › Heat pump convactor
Combinable with	<ul style="list-style-type: none"> › Domestic hot water › Cooling › Solar connection for hot water production 	<ul style="list-style-type: none"> › Domestic hot water 	<ul style="list-style-type: none"> › Domestic hot water › Cooling › Solar connection for hot water production

Heating & domestic hot water for renovations



Why choose Daikin Altherma high temperature?

Daikin Altherma high temperature is ideal **to replace your current oil boiler**, without replacing your existing radiators. It offers a wide range to adapt to your customer's needs.

- Heating and domestic hot water with optional solar connection
 - Capacities from 11 to 16 kW
 - Combinable with existing high temperature radiators
 - Easy control
- › Low running costs and optimum comfort at even the coldest outdoor temperatures, thanks to the unique cascade compressor approach
 - › No need to change your existing radiators and piping as water temperatures can be increased up to 80°C for heating and domestic hot water use
 - › Only limited installation space needed as the indoor unit and domestic hot water tank can be stacked on each other

- A** Indoor unit
- B** Outdoor unit
- C** Domestic hot water tank



Daikin Altherma heat pumps			Combustion
Air to water			Gas condensing boiler
Low temperature monobloc	High temperature split	Flex Type	
			
	<ul style="list-style-type: none"> › Ideal for replacement of a traditional boiler 	<ul style="list-style-type: none"> › Ideal for large hot water and heating requirements in › Apartments › Collective housing › Hotels › Fitness › Spa › Schools › Hospitals › Libraries 	<ul style="list-style-type: none"> › Ideal for replacement of and existing gas boiler
<ul style="list-style-type: none"> › 1 outdoor unit 	<ul style="list-style-type: none"> › 1 indoor unit › 1 outdoor unit 	<ul style="list-style-type: none"> › Several indoor units › 1 or more outdoor units 	<ul style="list-style-type: none"> › 1 indoor unit
	<ul style="list-style-type: none"> › High temperature radiators 	<ul style="list-style-type: none"> › Under floor heating › Low temperature radiators › Fan coil units › Heat pump convactor 	<ul style="list-style-type: none"> › Under floor heating › Radiators
	<ul style="list-style-type: none"> › Domestic hot water › Solar connection for hot water production 	<ul style="list-style-type: none"> › Domestic hot water › Cooling (Heat recovery) 	<ul style="list-style-type: none"> › Domestic hot water

Marketing tools

Visit our extranet: go to
extranet.daikineurope.com > Document library
Download the software:
http://www.daikineurope.com/binaries/daikin_alth_tcm524-234758.zip



Accessories for high temperature applications

User interface

With Daikin Altherma's user interface, the ideal temperature can be easily, quickly and conveniently regulated. It allows for more precise measurement and can regulate your comfort even more optimally and energy efficiently.

Heat emitters

The Daikin Altherma high temperature system is designed to work only with high-temperature radiators, which come in various sizes and formats to suit the interior design as well as the heating requirement. Our radiators can be individually controlled or they can be regulated by the central heating control programme.

Solar connection

The Daikin Altherma high temperature heating system can optionally use solar energy for hot water production.

If the solar energy is not required immediately, the purpose-built hot water tank (EKHWP) can store large quantities of heated water for up to a day for later use as domestic hot water or for heating.



Combination tables

Daikin Altherma hybrid heat pump

Outdoor		Indoor			
		Heat pump module			Gas condensing boiler
		EHYHBH-AV32 heating only	EHYHBX-AV3 heat pump	EHYKOMB-AA2 ⁽¹⁾ EHYKOMB-AA3 ⁽²⁾	
		05	08	08	33
EVLQ-CV3	05	x			x
	08		x	x	x

(1) applicable for Germany, Belgium, France, Italy, United Kingdom, Spain, Netherlands, Ireland, Switzerland, Malta

(2) Applicable for Bulgaria, Bosnia Herzegovina, Croatia, Hungary, Slovakia, Slovenia, Portugal, Greece, Cyprus, Poland, Turkey, Lithuania, Latvia

Daikin Altherma low temperature split

			Outdoor						Domestic hot water tank optional			
			Down to -20°C outdoor temp.			ERHQ-BV3 ERHQ-BW1	ERHQ-BV3 ERHQ-BW1	ERHQ-BV3 ERHQ-BW1	EKHWP-B		EKHWS-B	EKHWE-A
			Down to -25°C outdoor temp.			ERLQ-CV3 ERLQ-CW1	ERLQ-CV3 ERLQ-CW1	ERLQ-CV3 ERLQ-CW1				
Indoor		Range	004	006	008	011	014	016	300	500	150-200-300	150-200-300
Wall mounted	EBBH-CB	04	heating only	—		—			unpressurised hot water + solar	—	hot water + pressurised solar (opt.)	
		08	—	heating only		—						
		16		—		heating only						
	EBHX-CB	04	heating & cooling	—		—			hot water + unpressurised solar	—		
		08	—	heating & cooling		—						
		16		—		heating & cooling						
Floor standing with integrated domestic hot water tank	EHVH-CB	04	heating & hot water	—		—			domestic hot water tank is integrated in the indoor unit			
		08	—	heating & hot water		—						
		16		—		heating & hot water						
	EHVX-CB	04	heating, cooling & hot water	—		—						
		08	—	heating, cooling & hot water		—						
		16		—		heating, cooling & hot water						
Floor standing with integrated solar supported domestic hot water tank	EHSB-A	04	heating, cooling & hot water with (un)pressurised solar	—		—						
		08	—									
		16	heating, cooling & hot water with (un)pressurised solar (ERLQ only)									
	EHSX-A	04	heating, cooling & hot water with (un)pressurised solar	—		—						
		08	—	heating, cooling & hot water with unpressurised solar		—						
		16		—		heating, cooling & hot water with (un)pressurised solar (ERLQ only)						
	EHSB-A bivalent	04	heating, cooling & hot water with (un)pressurised solar	—		—						
		08	—									
		16	heating, cooling & hot water with unpressurised solar (ERLQ only)									
	EHSXB-A bivalent	04	heating, cooling & hot water with pressurised solar	—		—						
		08	heating, cooling & hot water with pressurised solar			—						
		16	—			heating, cooling & hot water with (un)pressurised solar (ERLQ only)						

Daikin Altherma high temperature split

Floor standing heating only air to water heat pump combinable with existing radiators

- › Easy replacement of existing boiler, without changing heating pipes
- › Low energy bills and low CO₂ emissions
- › Energy efficient heating only system based on air to water heat pump technology
- › Combinable with high temperature radiators
- › High temperature application: up to 80°C without electric heater
- › Floor standing indoor unit up to 16kW
- › Inverter controlled scroll compressor
- › Outdoor unit extracts heat from the outdoor air, even at -20°C



Efficiency data				EKHBRD	011ACV1 + ERSQ 011AV1	014ACV1 + ERSQ 014AV1	016ACV1 + ERSQ 016AV1	011ACV1 + ERRQ 011AV1	014ACV1 + ERRQ 014AV1	016ACV1 + ERRQ 016AV1	011ACY1 + ERSQ 011AY1	014ACY1 + ERSQ 014AY1	016ACY1 + ERSQ 016AY1	011ACY1 + ERRQ 011AY1	014ACY1 + ERRQ 014AY1	016ACY1 + ERRQ 016AY1												
Heating capacity	Nom.			kW	11 (3) / 11 (4) / 11 (5)	14 (3) / 14 (4) / 14 (5)	16 (3) / 16 (4) / 16 (5)	11 (3) / 11 (4)	14 (3) / 14 (4)	16 (3) / 16 (4)	11 (3) / 11 (4) / 11 (5)	14 (3) / 14 (4) / 14 (5)	16 (3) / 16 (4) / 16 (5)	11 (3) / 11 (4)	14 (3) / 14 (4)	16 (3) / 16 (4)												
Power input	Heating	Nom.		kW	3.57 (3) / 4.40 (4) / 2.61 (5)	4.66 (3) / 5.65 (4) / 3.55 (5)	5.57 (3) / 6.65 (4) / 4.31 (5)	3.57 (3) / 4.40 (4)	4.66 (3) / 5.65 (4)	5.57 (3) / 6.65 (4)	3.57 (3) / 4.40 (4) / 2.61 (5)	4.66 (3) / 5.65 (4) / 3.55 (5)	5.57 (3) / 6.65 (4) / 4.31 (5)	3.57 (3) / 4.40 (4)	4.66 (3) / 5.65 (4)	5.57 (3) / 6.65 (4)												
COP					3.08 (3) / 2.50 (4) / 4.22 (5)	3.00 (3) / 2.48 (4) / 3.94 (5)	2.88 (3) / 2.41 (4) / 3.72 (5)	3.08 (3) / 2.50 (4)	3.00 (3) / 2.48 (4)	2.88 (3) / 2.41 (4)	3.08 (3) / 2.50 (4) / 4.22 (5)	3.00 (3) / 2.48 (4) / 3.94 (5)	2.88 (3) / 2.41 (4) / 3.72 (5)	3.08 (3) / 2.50 (4)	3.00 (3) / 2.48 (4)	2.88 (3) / 2.41 (4)												
Indoor Unit				EKHBRD	011ACV1	014ACV1	016ACV1	011ACV1	014ACV1	016ACV1	011ACY1	014ACY1	016ACY1	011ACY1	014ACY1	016ACY1												
Casing	Colour				Metallic grey																							
	Material				Precoated sheet metal																							
Dimensions	Unit	HeightxWidthxDepth	mm		705x600x695																							
Weight	Unit		kg		144						147																	
Operation range	Heating	Ambient	Min.~Max.	°C	-20~20																							
		Water side	Min.~Max.	°C	25~80																							
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~35																							
		Water side	Min.~Max.	°C	25~80																							
Sound pressure level	Nom.		dBA	43 (1) / 46 (2)	45 (1) / 46 (2)	46 (1) / 46 (2)	43 (1) / 46 (2)	45 (1) / 46 (2)	46 (1) / 46 (2)	43 (1) / 46 (2)	45 (1) / 46 (2)	46 (1) / 46 (2)	43 (1) / 46 (2)	45 (1) / 46 (2)	46 (1) / 46 (2)													
	Night quiet mode	Level 1	dBA	40 (1)	43 (1)	45 (1)	40 (1)	43 (1)	45 (1)	40 (1)	43 (1)	45 (1)	40 (1)	43 (1)	45 (1)													
Outdoor Unit				ERSQ/ERRQ	011AV1	014AV1	016AV1	011AV1	014AV1	016AV1	011AY1	014AY1	016AY1	011AY1	014AY1	016AY1												
Dimensions	Unit	HeightxWidthxDepth	mm		1,345x900x320																							
Weight	Unit		kg		120																							
Compressor	Quantity				1																							
	Type				Hermetically sealed scroll compressor																							
Operation range	Heating	Min.~Max.	°CWB		-20~20																							
	Domestic hot water	Min.~Max.	°CDB		-20~35																							
Refrigerant	Type / GWP				R-410A / 2,087.5																							
	Charge		kg		4.5																							
	Charge		TCO _{Eq}		9.4																							
Sound power level	Heating	Nom.	dBA	68	69	71	68	69	71	68	69	71	68	69	71													
Sound pressure level	Heating	Nom.	dBA	52	53	55	52	53	55	52	53	55	52	53	55													
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V1/1~/50/220-440						V1/1~/50/220-240						Y1/3~/50/380-415											
Current	Recommended fuses			A	25						16																	
Outdoor Unit				EMRQ	8A			10A			12A			14A			16A											
Heating capacity	Nom.		kW		22.4			28			33.6			39.2			44.8											
Dimensions	Unit	HeightxWidthxDepth	mm		1,680x1,300x765																							
Weight	Unit		kg		331						339																	
Operation range	Heating	Min.~Max.	°CWB		-15~20																							
	Domestic hot water	Ambient	Min.~Max.	°CDB	-15~35																							
Refrigerant	Type / GWP				R-410A / 2,087.5																							
	Charge		kg		10.3			10.6			10.8			11.1														
	Charge		TCO _{Eq}		21.5			22.1			22.5			23.2														
Piping connections	Liquid	OD	mm		9.52						12.7			13			12.7											
	Suction	OD	mm		19.1			22.2						28.6														
	High and low pressure gas	OD	mm		15.9			19.1						22.2														
	Piping length	OU - IU	Max.	m	100																							
		System	Equivalent	m	120																							
	Total piping length	System	Actual	m	300																							
Sound power level	Heating	Nom.	dBA		78						80						83						84					
Sound pressure level	Heating	Nom.	dBA		58						60						62						63					
Power supply	Phase/Voltage			V	3~/380-415																							

(1) Sound levels are measured at: EW 55°C, LW 65°C, DT 10°C, ambient conditions 7°CDB/6°CWB (2) Sound levels are measured at: EW 60°C, LW 80°C, DT 10°C, ambient conditions 7°CDB/6°CWB (3) FW 55°C, LW 65°C, DT 10°C, ambient conditions 7°CDB/6°CWB (4) FW 70°C, LW 80°C, DT 10°C, ambient conditions 7°CDB/6°CWB (5) FW 30°C, LW 35°C, DT 5°C, ambient conditions 7°CDB/6°CWB (ERSQ only)

Daikin Altherma low temperature monobloc

	Monobloc			Domestic hot water tank optional			
Down to -20°C outdoor temp		EBLQ-BB6V3 EBLQ-BB6W1	EDLQ-BB6V3 EDLQ-BB6W1	EKHWP-B		EKHWS-B	EKHWE-A
Down to -25°C outdoor temp	EBHQ-BV3 EKCBH(X)-BCV3	EBHQ-BB6V3 EVHQ-BB6W1	EDHQ-BB6V3 EDHQ-BB6W1	300	500	150-200-300	150-200-300
006	Heating only (EKCBH) heating & cooling (EKCBX)	—	—	hot water + unpressurised solar		hot water + pressurised solar (opt.)	
008		—	—				
011	—	heating & cooling	heating only		hot water + unpressurised solar		
014	—						
016	—						

Daikin Altherma high temperature split

			Outdoor							Domestic hot water tank optional			
			ERRQ-A	ERRQ-A	ERRQ-A	EMRQ-A	EMRQ-A	EMRQ-A	EMRQ-A	EMRQ-A	EKHWP-B	EKHTS-AC	EKHWP-A
			ERSQ-A	ERSQ-A	ERSQ-A								
Indoor		Range	011	014	016	8	10	12	14	16	300-500	200-260	300-500
Floor standing	EKHBRD-AC	011	heating only							hot water + unpressurised solar	hot water	hot water + solar (opt.)	
		014											
		016											

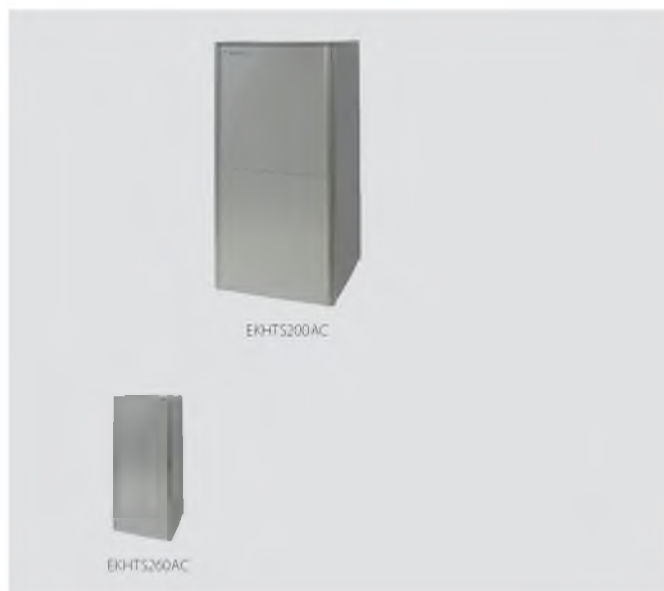
Daikin Altherma Flex Type

			Outdoor					Domestic hot water tank optional	
			EMRQ-A	EMRQ-A	EMRQ-A	EMRQ-A	EMRQ-A	EKHWP-B	EKHTS-AC
Indoor		Range	8	10	12	14	16	300-500	200-260
Floor standing	EKHVMRD-A	50	heating only					hot water + unpressurised solar	hot water
		80							
	EKHVMYD-A	50	heating & cooling						
		80							
	EKHBRD-AC	011	heating only						
		014							
016									

Domestic hot water tank

Stackable stainless steel domestic hot water tank

- › The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available
- › Available in 200 and 260 liters
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › At necessary intervals, the indoor unit can heat up the water to 60°C to prevent the risk of bacteria growth
- › Efficient temperature heat-up: from 10°C to 50°C in only 60 minutes



Accessory		EKHTS		200AC	260AC
Casing	Colour				
	Material	Metallic grey			
Dimensions	Unit	Height	Integrated on indoor unit	Galvanised steel (precoated sheet metal)	
				2,010	2,285
	Depth	Width		600	
				695	
Weight	Unit	Empty		70	78
Tank	Water volume			200	260
	Material	Stainless steel (EN 1.4521)			
	Maximum water temperature			75	
	Insulation	Heat loss	kWh/24h	1.2	1.5
Heat exchanger	Quantity	1			
	Tube material	Duplex steel (EN 1.4162)			
	Face area		m²	1.56	
	Internal coil volume		l	7.5	

Daikin Altherma hybrid heat pump, the natural combination

Why choose Daikin Altherma hybrid heat pump?

- **Low running costs** for heating and domestic hot water compared to traditional boilers
- Low investment cost
- **Ideal for renovation** applications with 27 kW gas boiler and 5 or 7 kW heat pump
- Easy and fast installation

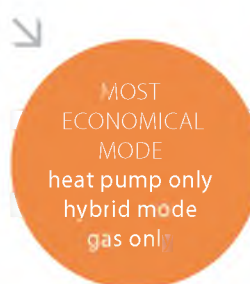


Gas condensing boiler



Heat pump indoor unit

Energy prices & Efficiency



Domestic hot water

Low running costs

1. Space heating

Daikin Altherma hybrid heat pump smartly chooses between the heat pump and/or the gas boiler, possibly in simultaneous operation based on

- › energy prices
- › outdoor temperature
- › the internal heat load

always selecting the most economical mode to operate.

2. Domestic hot water: heated using gas condensing technology

- › Efficiency increase of up to 10-15% compared to traditional gas condensing boilers thanks to a special dual heat exchanger:
- › cold tap water flows directly into the heat exchanger
- › optimal and continuous condensing of the flue gases during domestic hot water preparation

Plastic domestic hot water tank with solar support

- › Available in 300 and 500 liters
- › Large hot water storage tank to provide domestic hot water at any time
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › Space heating support possible (500l tank only)



Accessory		EKHWP	300B	500B
Dimensions	Unit	Width	mm	595
		Depth	mm	615
Weight	Unit	Empty	kg	59
				93
Tank	Water volume		l	300
				500
	Maximum water temperature		°C	85
Insulation	Heat loss		kWh/24h	1.3
				1.4
Heat exchanger	Domestic hot water	Tube material	Stainless steel	
		Face area	m ²	5.8
		Internal coil volume	l	27.9
		Operating pressure	bar	6
		Average specific thermal output	W/K	2,790
				2,900
Charging		Tube material	Stainless steel	
		Face area	m ²	2.7
		Internal coil volume	l	13.2
		Operating pressure	bar	3
		Average specific thermal output	W/K	1,300
				1,800
Auxiliary solar heating		Tube material	Stainless steel	
		Face area	m ²	-
		Internal coil volume	l	-
		Operating pressure	bar	3
		Average specific thermal output	W/K	-
				280

Marketing tools

- › Visit our extranet: go to extranet.daikineurope.com > Document library
- › Visit the website: <http://www.daikineurope.com/hybrid>



Low investment cost

- › No need to replace the existing radiators (up to 80°C) and pipe work
- › Compact dimensions: space needed for the new system is very similar to that of an existing system

Ideal for renovation applications

- › All heat loads are covered up to 27 kW

Easy and fast installation: 3 components

- › Heat pump outdoor unit
- › Heat pump indoor unit
- › Gas condensing boiler

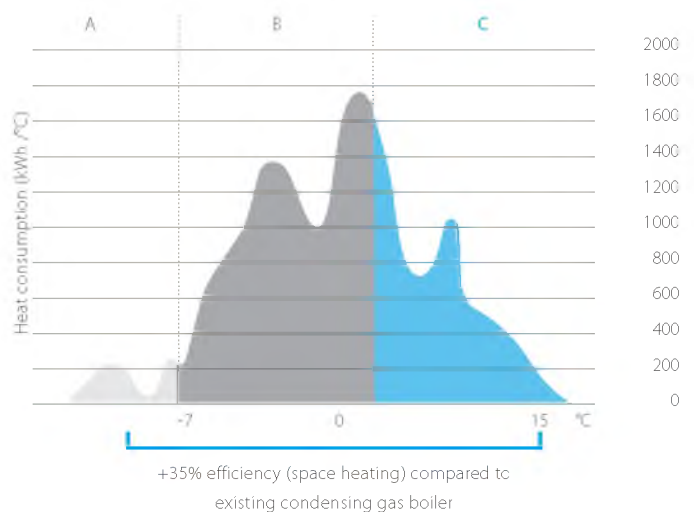
Case Study

Replacing a gas boiler with a Daikin Altherma hybrid heat pump means saving on running costs for both space heating and the domestic hot water supply. A running cost comparison is made based on below parameters for a typical Belgian winter. Thanks to the hybrid principle, the most cost-efficient operation will be used no matter what the ambient outdoor temperature is.

Conditions

Heat load	16 kW
Design temperature	-8°C
Space heating off temperature	16°C
Maximum water temperature	60°C
Minimum water temperature	38°C
Gas price	0.070 €/kWh
Electricity price (day)	0.237 €/kWh
Electricity price (night)	0.152 €/kWh
Total space heating requirement	19,500 kWh
Total DHW heating requirement (4 persons)	3,000 kWh

Heat consumption during winter



- A Low temperature zone 100% use of gas boiler
- B Mid temperature zone
Heat pump + gas boiler
- C High temperature zone 100% use of heat pump

Yearly savings: for space heating and domestic hot water

versus new gas condensing boiler

330 €/year

-19%

versus existing gas condensing boiler

690 €/year

-32%

Solar collector

Thermal solar collector for hot water production

- › Solar collectors can produce up to 70% of the energy needed for hot water production – a major cost saving
- › Vertical or horizontal solar collector for domestic hot water production
- › High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- › Easy to install on roof tiles



Accessory				EKSV21P	EKSV26P	EKSH26P
Dimensions	Unit	HeightxWidthxDepth	mm	2,000x1,006x85	2,000x1,300x85	1,300x2,000x85
Weight	Unit		kg	35		42
Volume			l	1.3	1.7	2.1
Surface	Outer		m ²	2.01		2.6
	Aperture		m ²	1.79		2.35
	Absorber		m ²	1.8		2.36
Coating				Micro-therm (absorption max. 96%, Emission ca. 5% +/- 2%)		
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate		
Glazing				Single pane safety glass, transmission +/- 92%		
Allowed roof angle Min.~Max.			°	15~80		
Operating pressure Max.			bar	6		
Stand still temperature Max.			°C	200		

EKSRPS

Pump station

- › Save energy and reduce CO₂ emissions with a solar system for domestic hot water production
- › Pump station connectable to unpressurised solar system
- › Pump station and control provide the transfer of solar heat to the domestic hot water tank



Accessory				EKSRP53
Mounting				On side of tank
Dimensions	Unit	HeightxWidthxDepth	mm	815x230x142
Control	Type			Digital temperature difference controller with plain text display
	Power consumption		W	2
Power supply	Voltage		V	230
Sensor	Solar panel temperature sensor			Pt1000
	Storage tank sensor			PTC
	Return flow sensor			PTC
	Feed temperature and flow sensor			Voltage signal (3.5V DC)

Daikin Altherma hybrid heat pump

Hybrid technology combining gas and air to water heat pump for heating and hot water

- › Depending on outdoor temperature, energy prices and internal heat load, Daikin Altherma hybrid heat pump always selects the most economical mode to operate
- › Low investment cost: no need to replace the existing radiators (up to 80°C) and pipe work
- › Provides sufficient heat in renovation applications as all heat loads are covered up to 27kW
- › Easy and fast installation thanks to the compact dimensions and quick interconnections

Efficiency data				EHYHBH + EVLQ	05AV32 + 05CV3	08AV32 + 08CV3
Heating capacity	Min.			kW	1.80 (1) / 1.80 (2)	
	Nom.			kW	4.40 (1) / 4.03 (2)	7.40 (1) / 6.89 (2)
	Max.			kW	5.12 (1) / 4.90 (2)	10.02 (1) / 9.53 (2)
Power input	Heating	Nom.		kW	0.87 (1) / 1.13 (2)	1.66 (1) / 2.01 (2)
COP					5.04 (1) / 3.58 (2)	4.45 (1) / 3.42 (2)

Indoor Unit				EHYHBH	05AV32	08AV32	EHYKOMB33A2/3
Gas	Consumption (G20)	Min-Max		m³/h	-	-	0.78-3.39
	Consumption (G25)	Min-Max		m³/h	-	-	0.90-3.93
	Consumption (G31)	Min-Max		m³/h	-	-	0.30-1.29
	Connection	Diameter		mm	-	-	15
Central heating	Heat input Q _n	Nom	Min-Max	kW	-	-	7.6-27 (3)
	(net calorific value)				-	-	
	Output P _n at 80/60°C	Min-Nom		kW	-	-	8.2-26.6 (3)
	Efficiency	Net calorific value		%	-	-	98 (4) / 107 (5)
Domestic hot water	Operation range	Min-Max		°C	-	-	15-80
	Output	Min-Nom		kW	-	-	7.6-32.7
	Water flow	Rate	Nom	l/min	-	-	9.0 / 15.0
	Operation range	Min-Max		°C	-	-	40-65
Supply air	Connection			mm	-	-	100
	Concentric				-	-	Yes
Flue gas	Connection			mm	-	-	60
Casing	Colour				White		White - RAL9010
	Material				Precoated sheet metal		
Dimensions	Unit	HeightxWidthxDepth		mm	902x450x164		820x490x270
Weight	Unit			kg	30	31.2	36
Power supply	Phase/Frequency/Voltage			Hz/V	-		1~/50/230
Electrical power consumption	Max.			W	-		55
	Standby			W	-		2
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25		-
		Water side	Min.~Max.	°C	25~55		-
Notes					-		For water circuit central heating, safety valve: refer to EHYHB*

Outdoor Unit				EVLQ	05CV3	08CV3
Dimensions	Unit	HeightxWidthxDepth		mm	735x832x307	
Weight	Unit			kg	54	56
Compressor	Quantity				1	
	Type				Hermetically sealed swing compressor	
Operation range	Heating	Min.~Max.		°CWB	-25~25	
Refrigerant	Type / GWP				R-410A / 2,087.5	
	Charge			kg	1.45	1.6
	Charge			TCO _{Eq}	3.0	3.3
Sound power level	Heating	Nom.		dBA	61	62
Sound pressure level	Heating	Nom.		dBA	48	49
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230	
Current	Recommended fuses			A	20	

(1) Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition: Ta DB/WB 7°C/6°C - LWC 45°C (DT=5°C) (3) Values according to G20 (4) 80/60 (5) 40/30 (30%)

Daikin Altherma Flex Type

for large residential and commercial applications

Why choose Daikin Altherma Flex Type

Daikin Altherma Flex Type is a flexible solution for space heating, domestic hot water and cooling for e.g. apartments, spas, hotels and restaurants

- Low operating costs thanks to high efficiency
- Large hot water volume
- Cooling in the most efficient way thanks to heat recovery technology
- Limited installation space thanks to small footprint of indoor unit and outdoor unit

Heat emitters

All types of heat emitters can be connected thanks to its wide water temperature range (up to 80°C) and its ability to work with multiple set points, allowing a combination of different heat emitters operating at different water temperatures.



Modular system

One or more outdoor units can be connected to several indoor units (maximum 10 indoor units per outdoor unit).

Advanced control and monitoring

To further increase the efficiency, an RTD-W per indoor unit and a sequencing controller for the full heating system can be installed to monitor the exact heating demand.

- 1 Heating
- 2 Cooling
- 3 Hot water



Marketing tools

- › Visit the extranet: <http://bit.ly/1yfMSKM>
- › Download the software: <http://bit.ly/1ma4se5>

Daikin Altherma hybrid heat pump

Hybrid technology combining gas and air to water heat pump for heating, **cooling** and hot water



Efficiency data				EHYHBX + EVLQ	08AV3 + 08CV3
Heating capacity	Min.			kW	1.80 (1) / 1.80 (2)
	Nom.			kW	7.40 (1) / 6.89 (2)
	Max.			kW	10.02 (1) / 9.53 (2)
Cooling capacity	Min.			kW	2.50 (1) / 2.50 (2)
	Nom.			kW	6.86 (1) / 5.36 (2)
Power input	Heating	Nom.		kW	1.66 (1) / 2.01 (2)
	Cooling	Nom.		kW	2.01 (1) / 2.34 (2)
COP					4.45 (1) / 3.42 (2)
EER					3.42 (1) / 2.29 (2)

Indoor Unit				EHYHBX	08AV3	EHYKOMB33A2/3
Gas	Consumption (G20)	Min-Max		m³/h	-	0.78-3.39
	Consumption (G25)	Min-Max		m³/h	-	0.90-3.93
	Consumption (G31)	Min-Max		m³/h	-	0.30-1.29
	Connection	Diameter		mm	-	15
Central heating	Heat input Qn (net calorific value)	Nom	Min-Max	kW	-	7.6-27 (3)
	Output Pn at 80/60°C	Min-Nom		kW	-	8.2-26.6 (3)
	Efficiency	Net calorific value		%	-	98 (4) / 107 (5)
	Operation range	Min-Max		°C	-	15~80
Domestic hot water	Output	Min-Nom		kW	-	7.6-32.7
	Water flow	Rate	Nom	l/min	-	9.0 / 15.0
	Operation range	Min/Max		°C	-	40~65
Supply air	Connection			mm	-	100
	Concentric				-	Yes
Flue gas	Connection			mm	-	60
Casing	Colour				White	White - RAL9010
	Material				Precoated sheet metal	
Dimensions	Unit	HeightxWidthxDepth		mm	902x450x164	820x490x270
Weight	Unit			kg	31.2	36
Power supply	Phase/Frequency/Voltage			Hz/V	-	1~/50/230
Electrical power consumption	Max.			W	-	55
	Standby			W	-	2
Operation range	Heating	Ambient	Min.~Max.	°C	-25~25	-
		Water side	Min.~Max.	°C	25~55	-
	Cooling	Ambient	Min.~Max.	°CDB	10~43	-
		Water side	Min.~Max.	°C	5~22	-
Notes					-	For water circuit central heating, safety valve: refer to EHYHB*

Outdoor Unit				EVLQ	08CV3
Dimensions	Unit	HeightxWidthxDepth		mm	735x832x307
Weight	Unit			kg	56
Compressor	Quantity				1
	Type				Hermetically sealed swing compressor
Operation range	Heating	Min.~Max.		°CWB	-25~25
Refrigerant	Type / GWP				R-410A / 2,087.5
	Charge			kg	1.6
	Charge			TCO _{Eq}	3.3
Sound power level	Heating	Nom.		dB(A)	62
Sound pressure level	Heating	Nom.		dB(A)	49
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V3/1~/50/230
Current	Recommended fuses			A	20

(1) Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) (2) Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C)
 (3) Values according to G20 (4) 80/60 (5) 40/30 (30%)

Daikin Altherma Flex Type

Floor standing air to water heat pump for large residential and commercial applications

- › Floor standing indoor unit up to 9kW
- › Low energy bills and low CO₂ emissions
- › Energy efficient heating only system based on air to water heat pump technology
- › High temperature application: up to 80°C without electric heater
- › Flexible configuration with respect to heat emitters
- › Inverter controlled scroll compressor



Indoor Unit		EKHVMRD/EKHVMYD			50A	80A	50A	80A
Casing	Colour	Metallic grey						
	Material	Precoated sheet metal						
Dimensions	Unit	HeightxWidthxDepth	mm		705x600x695			
Weight	Unit		kg		92		120	
Operation range	Heating	Ambient	Min./Max.	°C	-15/20			
		Water side	Min./Max.	°C	25/80			
	Cooling	Ambient	Min./Max.	°CDB	-/-		10/43	
		Water side	Min./Max.	°C	-/-		5/20	
	Domestic hot water	Ambient	Min.~Max.	°CDB	-15~35			
		Water side	Min./Max.	°C	45/75			
Refrigerant	Type / GWP	R-134A / 1,430						
	Charge		kg		2			
	Charge		TCO Eq		2.9			
Sound pressure level	Nom.		dBA		40 (1) / 43 (2)	42 (1) / 43 (2)	40 (1) / 43 (2)	42 (1) / 43 (2)
	Night quiet mode	Level 1	dBA		38 (1)			
Power supply	Name/Phase/Frequency/Voltage			Hz/V	V1/1~/50/220-240			
Current	Recommended fuses			A	20			

(1) Sound levels are measured at: EW 55°C; LW 65°C (2) Sound levels are measured at: EW 70°C; LW 80°C



Daikin Altherma ground source heat pump

Why choose Daikin?

The simple answer is that it is more efficient than an on/off ground source heat pump. Due to high efficiencies resulting from our **inverter technology**, the Daikin Altherma ground source heat pump provides a **leading edge performance**.



Highest seasonal efficiency thanks to our inverter heat pump technology

The Daikin inverter heat pump technology has been shown to provide an increase in seasonal efficiency of up to 20% when compared to traditional on/off ground source heat pumps. Higher brine temperatures during continuous compressor operation, in partial load conditions. Less back up heater operation thanks to the boosting of the inverter compressor frequency.

Quick and easy installation including a domestic hot water tank

Installation time is reduced up to 5 hours thanks to the compact designed unit that includes both the space heating and the brine expansion vessel.

Flexibility covering multiple house types

Providing a solution which can cover heat loads from 3-12kW means replacement of a 6 to 12 KW range is possible with one single unit. This is not only a flexible solution but also space saving.

No affected surroundings

Very limited outdoor space is required, except for the necessary space to prepare the excavation works.

Marketing tools

- › Visit our extranet: <http://bit.ly/1txOuwj>
- › Visit the website: <http://www.daikineurope.com/groundsource>



Daikin Altherma Flex Type

Floor standing heating only air to water heat pump
combinable with existing radiators

- › Single or three phase floor standing indoor unit up to 16kW
- › Low energy bills and low CO₂ emissions
- › Energy efficient heating only system based on air to water heat pump technology
- › Combinable with high temperature radiators
- › Easy replacement of existing boiler, without changing heating pipes
- › High temperature application: up to 80°C without electric heater
- › Inverter controlled scroll compressor



Indoor Unit		EKHBRD			011ACV1	014ACV1	016ACV1	011ACY1	014ACY1	016ACY1
Casing	Colour				Metallic grey					
	Material				Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth			mm					
Weight	Unit				144			147		
Operation range	Heating	Ambient	Min./Max.	°C	-20/20					
		Water side	Min./Max.	°C	25/80					
	Domestic hot water	Ambient	Min.~Max.	°CDB	-20~35					
		Water side	Min./Max	°C	25/-/80					
		(booster heater)/ Max.								
Refrigerant	Type / GWP	R-134A / 1,430								
	Charge	kg								
	Charge	TCO Eq								
Sound pressure level	Nom.	dBA			43 (1) / 46 (2)	45 (1) / 46 (2)	46 (1) / 46 (2)	43 (1) / 46 (2)	45 (1) / 46 (2)	46 (1) / 46 (2)
	Night quiet mode	Level 1	dBA			40 (1)	43 (1)	45 (1)	40 (1)	43 (1)
Power supply	Name/Phase/Frequency/Voltage				Hz/V			V1/3~/50/380-415		
Current	Recommended fuses				A			16		

(1) Sound levels are measured at: EW 55°C; LW 65°C; Dt 10°C; ambient conditions 7°CDB/6°CWB (2) Sound levels are measured at: EW 70°C; LW 80°C; Dt 10°C; ambient conditions 7°CDB/6°CWB

Daikin Altherma ground source heat pump

Ground source heat pump for heating & hot water

- › Ground source heat pump technology uses stable geothermal energy, unaffected by the outside temperature
- › Highest seasonal efficiency thanks to our inverter heat pump technology
- › Quick and easy installation thanks to factory-fitted piping on top of the unit and reduced overall weight
- › Integrated indoor unit: all-in-one floor standing unit including the domestic hot water tank
- › User interface with thermostat function for higher comfort, quick commissioning, easy servicing and energy management to control energy consumption and costs



Indoor Unit		EGSQH	10S18A9W
Heating capacity	Min.	kW	3.11 (1) / 2.47 (2)
	Nom.	kW	10.2 (1) / 9.29 (2)
	Max.	kW	13.0 (1) / 11.9 (2)
Power input	Nom.	kW	2.34 (1) / 2.82 (2)
COP			4.35 (1) / 3.29 (2)
Casing	Colour		White
	Material		Precoated sheet metal
Dimensions	Unit	HeightxWidthxDepth mm	1,732x600x728
Weight	Unit	kg	210
Tank	Water volume		180
	Insulation	Heat loss kWh/24h	1.36
	Corrosion protection		Anode
Operation range	Installation space	Min.~Max. °C	5~30
	Brine side	Min.~Max. °C	-5~20
	Heating	Water side Min.~Max. °C	24~60 (heat pump)/24-65 (heat pump + back up heater)
	Domestic hot water	Water side Min.~Max. °C	(25~55 (heatpump)/25~60 (back up heater)
Refrigerant	Type / GWP		R-410A / 2,087.5
	Charge	kg	1.8
	Charge	TCO Eq	3.8
Sound power level	Nom.	dBA	46
Sound pressure level	Nom.	dBA	32
Power supply	Name/Phase/Frequency/Voltage		9W/3~/50/400
Current	Recommended fuses		25

(1) EWB/LWB 0°C/-3°C - LWC 35°C (DT=5°C) (2) EWB/LWB 0°C/-3°C - LWC 45°C (DT=5°C)

Daikin Altherma Flex Type

- › Low energy bills and low CO₂ emissions
- › Easy installation and maintenance
- › Integrated heat recovery system
- › The ultimate heating solution for residential and commercial applications based on air to water heat pump technology
- › Customised to meet your building's needs: up to 10 indoor units can be connected to 1 outdoor unit



Outdoor Unit		EMRQ	8A	10A	12A	14A	16A
Heating capacity	Nom.	kW	22.4 (1)	28 (1)	33.6 (1)	39.2 (1)	44.8 (1)
Cooling capacity	Nom.	kW	20 (2)	25 (2)	30 (2)	35 (2)	40 (2)
Casing	Colour		Daikin White				
	Material		Painted galvanized steel plate				
Dimensions	Unit	HeightxWidthxDepth	mm				
			1,680x1,300x765				
Weight	Unit		kg				
			331				
Operation range	Heating	Min.	°CWB				
		Max.	°CWB				
	Domestic hot water	Ambient	Min.~Max.				
	Cooling	Min.	°CDB				
		Max.	°CDB				
Refrigerant	Type / GWP		R-410A / 2,087.5				
	Charge	kg	10.3	10.6	10.8	11.1	
	Charge	TCO _{Eq}	21.5	22.1	22.5	23.2	
Piping connections	Liquid	OD	mm				
			9.52				
	Suction	OD	mm				
			19.1				
	High and low pressure gas	OD	mm				
Piping length	OU - IU	Max.	m				
			100				
	System	Equivalent	m				
			120				
Total piping length	System	Actual	m				
			300				
Sound power level	Heating	Nom.	dBA				
			78				
Sound pressure level	Heating	Nom.	dBA				
			58				
Power supply	Phase/Voltage		V				
			3~/380-415				
Current	Recommended fuses	A	20	25		40	

(1) Condition: Ta=7°CDB/6°CWB, 100% connection ratio (2) Condition: Ta=35°CDB, 100% connection ratio

Daikin Altherma low temperature The natural choice

Why choose Daikin Altherma low temperature?

Daikin Altherma low temperature offers a wide range to adapt to your customer's needs.

- Ideal for **new builds**
- Heating, domestic hot water and cooling with optional solar support
- Capacities from 4 to 16 kW
- Combinable with **under floor heating**, heat pump convectors and low temperature radiators
- Easy control
- **Flexible solutions:** split floor standing, split wall mounted, monobloc

Daikin Altherma low temperature split

- › Best seasonal efficiencies providing the highest savings on running costs
- › Perfect fit for new builds, as well as for low-energy houses

Integrated heating and hot water unit, saving installation space and time

- › All components and connections factory-made
- › Very small installation footprint required
- › Minimum electrical input with constant availability of hot water
- › Model with integrated bi-zone kit available from spring 2015

Integrated heating and hot water unit with extended flexibility

- › Solar support of domestic hot water with unpressurised (drain-back) and pressurised solar system
- › Lightweight plastic tank with exceptional hygienic benefits
- › Bivalent option: combinable with a secondary heat source
- › App control possible

Wall mounted indoor unit with optional solar energy

The best solution in specific situations:

- › Ideal when no domestic hot water is required
- › Combinable with a separate domestic hot water tank when solar energy is preferred.

Daikin Altherma low temperature monobloc

- › Everything combined in one outdoor
- › Quick and easy installation as only water pipes run indoors from the outdoor unit
- › Limited installation space required as only outdoor space is required
- › Freeze protection of hydraulic parts



Domestic hot water tank

Stackable stainless steel domestic hot water tank

- › The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available
- › Available in 200 and 260 liters
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › At necessary intervals, the indoor unit can heat up the water to 60°C to prevent the risk of bacteria growth
- › Efficient temperature heat-up: from 10°C to 50°C in only 60 minutes



Accessory		EKHTS		200AC	260AC
Casing	Colour				
	Material	Metallic grey			
Dimensions	Unit	Height	Integrated on indoor unit	Galvanised steel (precoated sheet metal)	
				2,010	2,285
		Width	mm	600	
		Depth	mm	695	
Weight	Unit	Empty	kg	70	78
	Tank	Water volume	l	200	260
Heat exchanger	Material			Stainless steel (EN 1.4521)	
	Maximum water temperature			75	
	Insulation	Heat loss	kWh/24h	1.2	1.5
	Quantity			1	
	Tube material			Duplex steel (EN 1.4162)	
	Face area			1.56	
	Internal coil volume			7.5	

EKHWP-B

Plastic domestic hot water tank with solar support

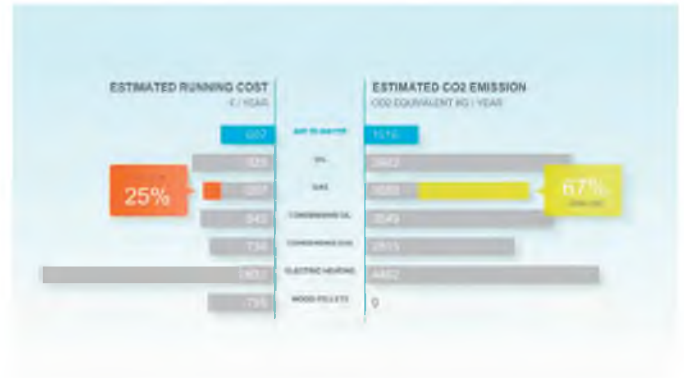
- › Available in 300 and 500 liters
- › Large hot water storage tank to provide domestic hot water at any time
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › Space heating support possible (500l tank only)



Accessory		EKHWP		300B	500B
Dimensions	Unit	Width	mm	595	790
		Depth	mm	615	790
Weight	Unit	Empty	kg	59	93
	Tank	Water volume	l	300	500
Heat exchanger	Maximum water temperature			85	
	Insulation	Heat loss	kWh/24h	1.3	1.4
	Domestic hot water	Tube material			Stainless steel
		Face area	m²	5.8	6
		Internal coil volume	l	27.9	29
		Operating pressure	bar	6	
		Average specific thermal output	W/K	2,790	2,900
Charging	Charging	Tube material			Stainless steel
		Face area	m²	2.7	3.8
		Internal coil volume	l	13.2	18.5
		Operating pressure	bar	3	
		Average specific thermal output	W/K	1,300	1,800
Auxiliary solar heating	Auxiliary solar heating	Tube material			Stainless steel
		Face area	m²	-	0.5
		Internal coil volume	l	-	2.3
		Operating pressure	bar	3	
		Average specific thermal output	W/K	-	280

Marketing tools

- › Visit the extranet: go to extranet.daikineurope.com > Document library
- › Visit the website: www.daikineurope.com/minisite/daikin_altherma_it/
- › Download the software: http://www.daikineurope.com/binaries/daikin_alth_tcm524-234758.zip
- › Calculate your energy savings: <http://ecocalc.daikin.eu/>



Eco-calculator



Case Study

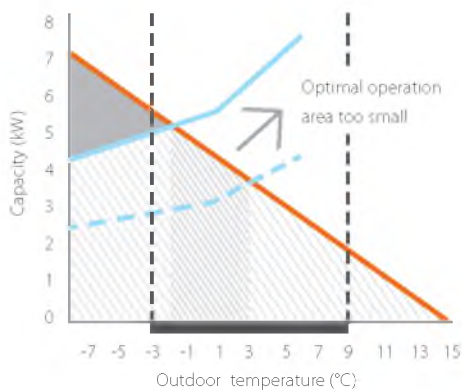
Efficient partial-load operation is especially important for the temperature range where the highest heat output is required. Typically, 80% of the total heat output is required in an outdoor temperature range of -2°C to 10°C. Achieving high efficiencies in this temperature range, contributes strongly to high seasonal efficiencies.

- › Largest part of heat output delivered at optimal efficiencies
- › Less on/off operation when heat load becomes lower than the minimum capacity the heat pump can deliver, optimising efficiency and comfort
- › Modulating range doubled vs standard air-to-water heat pumps
- › New range delivers around 1kW additional in full-load condition at -7°C (+25%)

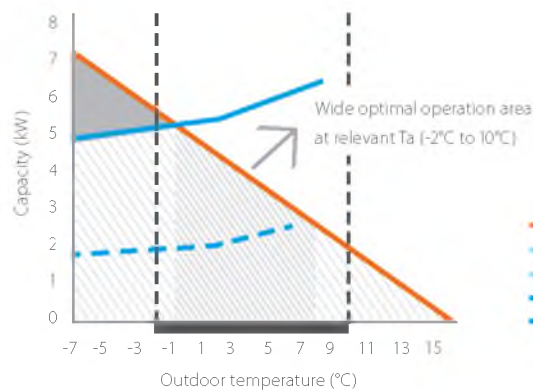
Typical application:

- › Location: Paris
- › Design temperature: -7°C
- › Heat load: 7kW
- › Heating off temperature: 16°C

Standard heat pump



Daikin Altherma



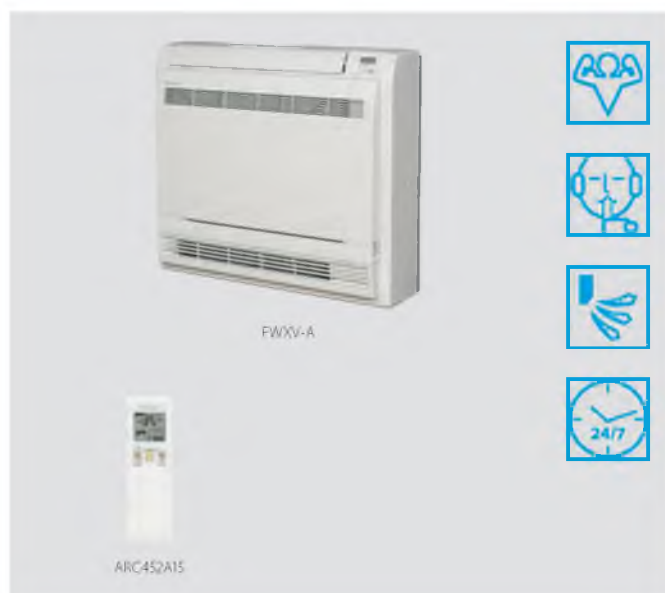
Resulting in
the best possible
efficiencies

- heat load line
- standard heat pump max capacity
- - standard heat pump min capacity
- ERLQ006CAV3 max capacity
- - ERLQ006CAV3 min capacity

Heat pump convector

Floor standing unit saving on running costs when combined with under floor heating thanks to its low leaving water temperatures

- › Its low height enables the unit to fit perfectly beneath a window
- › Can be installed against a wall or recessed
- › Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- › Energy efficient heating and cooling system based on air source heat pump technology
- › Optimum energy efficiency when connected to a Daikin Altherma low temperature system
- › Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- › Weekly timer can be set to start heating or cooling anytime on a daily or weekly basis
- › Powerful mode can be selected for rapid cooling; after the powerful mode is turned off, the unit returns to the preset mode.



Indoor Unit			FWXV	15A	20A
Heating capacity	Total capacity	Nom.	kW	1.5	2.0
			Btu/h	5,100	6,800
Cooling capacity	Total capacity	Nom.	kW	1.2	1.7
	Sensible capacity	Nom.	kW	0.98	1.4
Power input	Heating	Nom.	kW	0.013	0.015
	Cooling	Nom.	kW	0.013	0.015
Dimensions	Unit	HeightxWidthxDepth	mm	600x700x210	
Weight	Unit		kg	15	
Piping connections	Drain/OD/Inlet/Outlet		mm/inch	18/G 1/2/G 1/2	
Sound pressure level	Heating	Nom.	dBA	19	29
	Cooling	Nom.	dBA	19	29
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220	

Integrated bi-zone

Optimum efficiency offering full flexibility in heat emitters

- › Two different temperature zones can be automatically regulated by the same indoor unit
- › Offers flexibility to the end user to combine different heat emitters e.g. under floor heating and radiators while optimising the efficiency

